

LAMPIRAN

Lampiran -1 Kartu Monitoring



KARTU MONITORING BIMBINGAN
 MAHASISWA PROGRAM STUDI TEKNIK INFORMATIKA
 FAKULTAS TEKNIK
 UNIVERSITAS MUHAMMADIYAH PAREPARE

PROPOSAL

Mahasiswa : NURMIANA	Pembimbing I : Muh. Basri, ST.,MT
NIM : 220280145	Pembimbing II : Wahyuddin, S.Kom., M.Kom
Judul Skripsi : APLIKASI PANDUAN PENGUCAPAN HURUF HIJIYAH DENGAN AUTO KOREKSI	

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 1		Konsultasi 1 - Perbaiki dokumen ikuti panduan - Teori pada BAB II di lengkapi	
Konsultasi 2		Konsultasi 2 - Desain sistem diperbaiki - Tambahkan interface	
Konsultasi 3		Konsultasi 3 - Daftar pustaka di susun/ronkan pada BAB II	
Konsultasi 4		Konsultasi 4	
Konsultasi 5		Konsultasi 5	

Lanjut ke halaman sebelah...

Perhatian :

1. Mahasiswa wajib konsultasi minimal 5 kali
2. Kartu ini wajib dibawa oleh mahasiswa disetiap konsultasi dan diisi oleh Pembimbing
3. Kartu ini wajib dilampirkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut seminar proposal/ujian skripsi
4. Kartu ini dicetak di atas kertas karton berwarna hijau muda dan dicetak timbal balik



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SKRIPSI

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ARAHAN PEMBIMBING I	HARI/ TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/ TGL & PARAF PEMBIMBING
Konsultasi 1		Konsultasi 1 - Marukkan proses Batalan	
Konsultasi 2		Konsultasi 2 - proses	
Konsultasi 3		Konsultasi 3 Acc	
Konsultasi 4		Konsultasi 4 Acc	
Konsultasi 5		Konsultasi 5	

Lanjut ke halaman sebelah.....

Perhatian :

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4. Kartu ini dicetak di atas kertas karton A4 berwarna Hijau muda dan dicetak timbal balik

Lanjutan.....

Lampiran -2 Script Aplikasi

MainActivity.java

```
package  
com.example.koreksipenyebutanhijaiyah  
;
```

```
import android.annotation.SuppressLint;  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.ImageButton;  
import android.widget.Toast;  
import  
androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends  
AppCompatActivity {
```

```
    // Deklarasi variabel Button  
    ImageButton mulai;  
    ImageButton keluar;
```

```
    @SuppressWarnings("MissingInflatedId")  
    @Override  
    protected void onCreate(Bundle  
savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main)  
        ;
```

```
        // Inisialisasi variabel Button  
        mulai = findViewById(R.id.mulai);  
        keluar =  
        findViewById(R.id.keluar);
```

```
        // Set OnClickListener untuk Button  
        Mulai
```

```
        mulai.setOnClickListener(v -> {  
            Intent intent = new  
            Intent(MainActivity.this,  
            ActivityMulai.class);  
            startActivity(intent);  
        });
```

```
        // Set OnClickListener untuk Button  
        Keluar
```

```
        keluar.setOnClickListener(v -> {  
            finishAffinity(); // Menutup  
            semua activity dan keluar dari aplikasi  
        });  
    }  
}
```

ActivityMulai.java

```
package  
com.example.koreksipenyebutanhijaiyah  
;
```

```
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageButton;  
import  
androidx.appcompat.app.AppCompatActivity;
```

```
public class ActivityMulai extends  
AppCompatActivity {  
    ImageButton mengenal;  
    ImageButton menyebut;  
    ImageButton kembali;
```

```
    @Override  
    protected void onCreate(Bundle  
savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_mulai  
); // Pastikan nama file XML sesuai
```

```
        // Inisialisasi tombol untuk  
        mengenal huruf hijaiyah
```

```
        mengenal =  
        findViewById(R.id.mengenal);  
        menyebut =  
        findViewById(R.id.menyebut);  
        kembali =  
        findViewById(R.id.kembali);
```

```
        // Tombol "Mengenal"  
        mengenal.setOnClickListener(new
```

```

View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // Memulai activity
        MengenalHuruf
        Intent intent = new
        Intent(ActivityMulai.this,
        mengenal_huruf.class);
        startActivity(intent);
    }
    });

    // Tombol "Menyebut"
    menyebut.setOnClickListeners(new
    View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // Memulai activity
            MenyebutkanHuruf
            Intent intent = new
            Intent(ActivityMulai.this,
            menyebutkan_huruf.class);
            startActivity(intent);
        }
    });

    // Tombol "Kembali"
    kembali.setOnClickListeners(new
    View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // Menutup activity ini dan
            kembali ke activity sebelumnya
            finish();
        }
    });
}

```

mengenal_huruf.java

```

package
com.example.koreksipenyebutanhijaiyah
;

import android.content.Intent;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;

```

```

import
androidx.appcompat.app.AppCompatActivity;

public class mengenal_huruf extends
AppCompatActivity {

    ImageButton kembali;
    ImageButton lanjut;
    MediaPlayer mediaPlayer;

    @Override
    protected void onCreate(Bundle
    savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_meng
        enal_huruf1); // Pastikan nama file XML
        sesuai

        // Inisialisasi tombol
        kembali =
        findViewById(R.id.kembali);
        lanjut = findViewById(R.id.lanjut);

        // Tombol "Kembali"
        kembali.setOnClickListener(v -> {
            finish(); // Menutup activity ini
            dan kembali ke activity sebelumnya
        });

        // Tombol "Lanjut"
        lanjut.setOnClickListener(v -> {
            Intent intent = new
            Intent(mengenal_huruf.this,
            mengenal_huruf_2.class);
            startActivity(intent); //
            Berpindah ke activity berikutnya
        });

        // Tombol huruf hijaiyah
        setupLetterButtons();
    }

```

```

private void setupLetterButtons() {
    // Contoh tombol Alif =
    findViewById(R.id.alif);
    alif.setOnClickListener(v ->

```



```
playSound(R.raw.alif)); // Pastikan file  
alif.mp3 ada di res/raw
```

```
// Contoh tombol Ba  
ImageButton ba =  
findViewById(R.id.ba);  
ba.setOnClickListener(v ->  
playSound(R.raw.ba)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Ta  
ImageButton ta =  
findViewById(R.id.ta);  
ta.setOnClickListener(v ->  
playSound(R.raw.ta)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Tsa  
ImageButton tsa =  
findViewById(R.id.tsa);  
tsa.setOnClickListener(v ->  
playSound(R.raw.tsa)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Jim  
ImageButton jim =  
findViewById(R.id.jim);  
jim.setOnClickListener(v ->  
playSound(R.raw.jim)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Haa  
ImageButton haa =  
findViewById(R.id.haa);  
haa.setOnClickListener(v ->  
playSound(R.raw.haa)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Kho  
ImageButton kho =  
findViewById(R.id.kho);  
kho.setOnClickListener(v ->  
playSound(R.raw.kho)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Dal  
ImageButton dal =  
findViewById(R.id.dal);  
dal.setOnClickListener(v ->  
playSound(R.raw.dal)); // Pastikan file
```

ba.mp3 ada di res/raw

```
// Contoh tombol Dzal  
ImageButton dzal =  
findViewById(R.id.dzal);  
dzal.setOnClickListener(v ->  
playSound(R.raw.dzal)); // Pastikan file  
ba.mp3 ada di res/raw
```

```
// Contoh tombol Ro  
ImageButton ro =  
findViewById(R.id.ro);  
ro.setOnClickListener(v ->  
playSound(R.raw.ro)); // Pastikan file  
ba.mp3 ada di res/raw
```

*// Tambahkan tombol lainnya
sesuai dengan huruf hijaiyah yang ada*

```
// Contoh:  
// ImageButton buttonTa =  
findViewById(R.id.ta);  
// buttonTa.setOnClickListener(v ->  
playSound(R.raw.ta));  
}
```

```
private void playSound(int  
soundResource) {  
    // Pastikan untuk menghentikan  
    suara yang sedang diputar sebelum  
    memutar yang baru  
    if (mediaPlayer != null) {  
        mediaPlayer.release(); //  
        Hentikan suara sebelumnya  
        mediaPlayer = null; // Setel ke  
        null untuk mencegah kebocoran memori  
    }
```

```
// Buat media player baru dengan  
sumber suara yang dipilih  
mediaPlayer =  
MediaPlayer.create(this,  
soundResource);  
mediaPlayer.start(); // Mulai  
memutar suara
```

*// Menghentikan dan melepaskan
MediaPlayer setelah selesai memutar*

```
mediaPlayer.setOnCompletionListener(  
mp -> {
```

```

        mediaPlayer.release();
        mediaPlayer = null;
    });
}

@Override
protected void onDestroy() {
    // Hentikan dan lepaskan media
    player jika masih aktif
    if (mediaPlayer != null) {
        mediaPlayer.release();
        mediaPlayer = null;
    }
    super.onDestroy();
}
}

```

mengenal_huruf_2.java

```

package
com.example.koreksipenyebutanhijaiyah
;

```

```

import android.content.Intent;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import
androidx.appcompat.app.AppCompatActivity;

```

```

public class mengenal_huruf_2 extends
AppCompatActivity {

```

```

    ImageButton kembali;
    ImageButton lanjut;
    MediaPlayer mediaPlayer;

```

```

    @Override
    protected void onCreate(Bundle
savedInstanceState) {

```

```

super.onCreate(savedInstanceState);

```

```

setContentView(R.layout.activity_meng
enal_huruf2); // Pastikan nama file XML
sesuai

```

```

// Inisialisasi tombol

```

```

        kembali =
findViewById(R.id.kembali);
        lanjut = findViewById(R.id.lanjut);

```

```

// Tombol "Kembali"
        kembali.setOnClickListener(v -> {
            finish(); // Menutup activity ini
            dan kembali ke activity sebelumnya
        });

```

```

// Tombol "Lanjut"
        lanjut.setOnClickListener(v -> {
            Intent intent = new
            Intent(mengenal_huruf_2.this,
            mengenal_huruf_3.class);
            startActivity(intent); //
            Berpindah ke activity berikutnya
        });

```

```

// Tombol huruf hijaiyah
        setupLetterButtons();
    }

```

```

private void setupLetterButtons() {
    // Contoh tombol Zay
    ImageButton zay =
    findViewById(R.id.zay);
    zay.setOnClickListener(v ->
    playSound(R.raw.zay)); // Pastikan file
    alif.mp3 ada di res/raw

```

```

    // Contoh tombol Sin
    ImageButton sin =
    findViewById(R.id.sin);
    sin.setOnClickListener(v ->
    playSound(R.raw.sin)); // Pastikan file
    ba.mp3 ada di res/raw

```

```

    // Contoh tombol Syin
    ImageButton syin =
    findViewById(R.id.syin);
    syin.setOnClickListener(v ->
    playSound(R.raw.syin)); // Pastikan file
    ba.mp3 ada di res/raw

```

```

    // Contoh tombol Shod
    ImageButton shod =
    findViewById(R.id.shod);
    shod.setOnClickListener(v ->
    playSound(R.raw.shod)); // Pastikan file

```

ba.mp3 ada di *res/raw*

```
// Contoh tombol Dhod
ImageButton dhod =
findViewById(R.id.dhod);
dhod.setOnClickListener(v ->
playSound(R.raw.dhod)); // Pastikan file
ba.mp3 ada di res/raw
```

```
// Contoh tombol Tho
ImageButton tho =
findViewById(R.id.tho);
tho.setOnClickListener(v ->
playSound(R.raw.tho)); // Pastikan file
ba.mp3 ada di res/raw
```

```
// Contoh tombol Dzho
ImageButton dzho =
findViewById(R.id.dzho);
dzho.setOnClickListener(v ->
playSound(R.raw.dzho)); // Pastikan file
ba.mp3 ada di res/raw
```

```
// Contoh tombol Ain
ImageButton ain =
findViewById(R.id.ain);
ain.setOnClickListener(v ->
playSound(R.raw.ain)); // Pastikan file
ba.mp3 ada di res/raw
```

```
// Contoh tombol Ghoin
ImageButton ghoin =
findViewById(R.id.ghoin);
ghoin.setOnClickListener(v ->
playSound(R.raw.ghoin)); // Pastikan
file ba.mp3 ada di res/raw
```

```
// Contoh tombol Fa
ImageButton fa =
findViewById(R.id.fa);
fa.setOnClickListener(v ->
playSound(R.raw.fa)); // Pastikan file
ba.mp3 ada di res/raw
```

*// Tambahkan tombol lainnya
sesuai dengan huruf hijaiyah yang ada*

```
// Contoh:
// ImageButton buttonTa =
findViewById(R.id.ta);
// buttonTa.setOnClickListener(v ->
```

```
playSound(R.raw.ta));
}
```

```
private void playSound(int
soundResource) {
    // Pastikan untuk menghentikan
    suara yang sedang diputar sebelum
    memutar yang baru
    if (mediaPlayer != null) {
        mediaPlayer.release(); //
        Hentikan suara sebelumnya
        mediaPlayer = null; // Setel ke
        null untuk mencegah kebocoran memori
    }
```

```
// Buat media player baru dengan
sumber suara yang dipilih
mediaPlayer =
MediaPlayer.create(this,
soundResource);
mediaPlayer.start(); // Mulai
memutar suara
```

*// Menghentikan dan melepaskan
MediaPlayer setelah selesai memutar*

```
mediaPlayer.setOnCompletionListener(
mp -> {
    mediaPlayer.release();
    mediaPlayer = null;
});
}
```

```
@Override
protected void onDestroy() {
    // Hentikan dan lepaskan media
    player jika masih aktif
    if (mediaPlayer != null) {
        mediaPlayer.release();
        mediaPlayer = null;
    }
    super.onDestroy();
}
}
```

mengenal_huruf_3.java


```
package
com.example.koreksipenyebutanhijaiyah
;
```

```
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.Bundle;
//import android.view.View;
import android.widget.ImageButton;
import
androidx.appcompat.app.AppCompatActivity;
```

```
public class mengenal_huruf_3 extends
AppCompatActivity {
```

```
    ImageButton kembali;
    ImageButton home;
    MediaPlayer mediaPlayer;
```

```
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_meng
enal_huruf3); // Pastikan file XML
sesuai
```

```
        kembali =
findViewById(R.id.kembali);
```

```
        kembali.setOnClickListener(v -> {
            // Menutup activity ini dan
            kembali ke activity sebelumnya
            finish();
        });
        setupLetterButtons();
    }
```

```
    private void setupLetterButtons() {
        // Contoh tombol Qof
        ImageButton qof =
findViewById(R.id.qof);
        qof.setOnClickListener(v ->
playSound(R.raw.qof)); // Pastikan file
alif.mp3 ada di res/raw
```

```
        // Contoh tombol Kaf
```

```
        ImageButton kaf =
findViewById(R.id.kaf);
        kaf.setOnClickListener(v ->
playSound(R.raw.kaf)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Lam
        ImageButton lam =
findViewById(R.id.lam);
        lam.setOnClickListener(v ->
playSound(R.raw.lam)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Mim
        ImageButton mim =
findViewById(R.id.mim);
        mim.setOnClickListener(v ->
playSound(R.raw.mim)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Nun
        ImageButton nun =
findViewById(R.id.nun);
        nun.setOnClickListener(v ->
playSound(R.raw.nun)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Waw
        ImageButton waw =
findViewById(R.id.waw);
        waw.setOnClickListener(v ->
playSound(R.raw.waw)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Ha
        ImageButton ha =
findViewById(R.id.ha);
        ha.setOnClickListener(v ->
playSound(R.raw.ha)); // Pastikan file
ba.mp3 ada di res/raw
```

```
        // Contoh tombol Lam_alif
        ImageButton lam_alif =
findViewById(R.id.lamalif);
        lam_alif.setOnClickListener(v ->
playSound(R.raw.lam_alif)); // Pastikan
file ba.mp3 ada di res/raw
```

```
        // Contoh tombol Hamzah
        ImageButton hamzah =
```

```
findViewById(R.id.hamzah);
    hamzah.setOnClickListener(v ->
playSound(R.raw.hamzah)); // Pastikan
file ba.mp3 ada di res/raw
```

```
    // Contoh tombol Ya
    ImageButton ya =
findViewById(R.id.ya);
    ya.setOnClickListener(v ->
playSound(R.raw.ya)); // Pastikan file
ba.mp3 ada di res/raw
```

```
    // Tambahkan tombol lainnya
sesuai dengan huruf hijaiyah yang ada
    // Contoh:
    // ImageButton buttonTa =
findViewById(R.id.ta);
    // buttonTa.setOnClickListener(v ->
playSound(R.raw.ta));
}
```

```
private void playSound(int
soundResource) {
    // Pastikan untuk menghentikan
suara yang sedang diputar sebelum
memutar yang baru
    if (mediaPlayer != null) {
        mediaPlayer.release(); //
Hentikan suara sebelumnya
        mediaPlayer = null; // Setel ke
null untuk mencegah kebocoran memori
    }
```

```
    // Buat media player baru dengan
sumber suara yang dipilih
    mediaPlayer =
MediaPlayer.create(this,
soundResource);
    mediaPlayer.start(); // Mulai
memutar suara
```

```
    // Menghentikan dan melepaskan
MediaPlayer setelah selesai memutar
```

```
mediaPlayer.setOnCompletionListener(
mp -> {
    mediaPlayer.release();
    mediaPlayer = null;
});
}
```

```
@Override
protected void onDestroy() {
    // Hentikan dan lepaskan media
player jika masih aktif
    if (mediaPlayer != null) {
        mediaPlayer.release();
        mediaPlayer = null;
    }
    super.onDestroy();
}
}
```

menyebutkan_huruf.java

```
package
com.example.koreksipenyebutanhijaiyah
;
```

```
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
```

```
import
androidx.appcompat.app.AppCompatActivity;
```

```
public class menyebutkan_huruf extends
AppCompatActivity {
```

```
    // Deklarasi variabel Button
    ImageButton mulai;
    ImageButton kembali;
```

```
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_meny
ebutkan_huruf);
```

```
    // Inisialisasi variabel Button
    mulai = findViewById(R.id.mulai);
    kembali =
```

```

findViewById(R.id.kembali);

    // Set OnClickListener untuk Button
    Mulai
    mulai.setOnClickListener(v -> {
        Intent intent = new
        Intent(menyebutkan_huruf.this,
        menyebutkan_huruf_1.class);
        startActivity(intent);
    });

    // Tombol "Kembali"
    kembali.setOnClickListener(new
    View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // Menutup activity ini dan
            kembali ke activity sebelumnya
            finish();
        }
    });
}
}

```

menyebutkan_huruf_1.java

```

package
com.example.koreksipenyebutanhijaiyah
;

import android.Manifest;
import android.annotation.SuppressLint;
import android.content.Intent;
import
android.content.pm.PackageManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.os.Handler;
import
android.speech.SpeechRecognizer;
import android.speech.RecognizerIntent;
import
android.speech.RecognitionListener;
import android.view.View;
import android.widget.ImageButton;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;

```

```

import
androidx.appcompat.app.AppCompatActivity;
import
androidx.core.app.ActivityCompat;
import
androidx.core.content.ContextCompat;

import java.util.ArrayList;
import java.util.Locale;

```

```

public class menyebutkan_huruf_1
extends AppCompatActivity {

    private static final int
    REQUEST_RECORD_AUDIO_PERMIS
    SION = 1;
    private static final int
    SPEECH_REQUEST_CODE = 2;

    private SpeechRecognizer
    speechRecognizer;
    private TextView
    tvResult, HasilUcapan;
    private ImageButton hurufA, hurufBa,
    hurufTa, hurufTsa, hurufJa, hurufHaa,
    hurufKho, hurufDa, hurufDza, hurufRo;
    private ImageButton kembali, lanjut;
    private MediaPlayer mediaPlayer;
    private String selectedLetter = ""; //
    Variabel untuk menyimpan huruf yang
    dipilih

```

```

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_meny
        ebutkan_huruf1);

```

```

        // Inisialisasi komponen UI
        tvResult =
        findViewById(R.id.tv_result);
        HasilUcapan =
        findViewById(R.id.hasil_ucapan);
        hurufA = findViewById(R.id.a);
        hurufBa = findViewById(R.id.ba);

```

```

        hurufTa = findViewById(R.id.ta);
        hurufTsa =
findViewById(R.id.tsa);
        hurufJa = findViewById(R.id.ja);
        hurufHaa =
findViewById(R.id.haa);
        hurufKho =
findViewById(R.id.kho);
        hurufDa = findViewById(R.id.da);
        hurufDza =
findViewById(R.id.dza);
        hurufRo = findViewById(R.id.ro);
        kembali =
findViewById(R.id.kembali);
        lanjut = findViewById(R.id.lanjut);

```

```

// Tombol "Kembali"
        kembali.setOnClickListener(v -> {
            Intent intent = new
Intent(menyebutkan_huruf_1.this,
menyebutkan_huruf.class);
            startActivity(intent);
            finish();
        });

```

```

// Tombol "Lanjut"
        lanjut.setOnClickListener(v -> {
            Intent intent = new
Intent(menyebutkan_huruf_1.this,
menyebutkan_huruf_2.class);
            startActivity(intent);
        });

```

```

// Inisialisasi SpeechRecognizer
        speechRecognizer =
SpeechRecognizer.createSpeechRecogni
zer(this);

```

```

        Intent speechIntent = new
Intent(RecognizerIntent.ACTION_REC
OGNIZE_SPEECH);

```

```

        speechIntent.putExtra(RecognizerIntent.
EXTRA_LANGUAGE_MODEL,
RecognizerIntent.LANGUAGE_MODEL
_FREE_FORM);

```

```

        speechIntent.putExtra(RecognizerIntent.
EXTRA_LANGUAGE,
Locale.getDefault());

```

```

// Tombol huruf A
        hurufA.setOnClickListener(v -> {
            selectedLetter = "a";

```

```

        tvResult.setText("Mendengarkan...");

```

```

        speechRecognizer.startListening(speechI
ntent);
        });

```

```

// Tombol huruf Ba
        hurufBa.setOnClickListener(v -> {
            selectedLetter = "ba";

```

```

        tvResult.setText("Mendengarkan...");

```

```

        speechRecognizer.startListening(speechI
ntent);
        });

```

```

// Tombol huruf Ta
        hurufTa.setOnClickListener(v -> {
            selectedLetter = "ta";

```

```

        tvResult.setText("Mendengarkan...");

```

```

        speechRecognizer.startListening(speechI
ntent);
        });

```

```

// Tombol huruf Tsa
        hurufTsa.setOnClickListener(v -> {
            selectedLetter = "tsa";

```

```

        tvResult.setText("Mendengarkan...");

```

```

        speechRecognizer.startListening(speechI
ntent);
        });

```

```

// Tombol huruf Ja
        hurufJa.setOnClickListener(v -> {
            selectedLetter = "ja";

```

```

        tvResult.setText("Mendengarkan...");

```

```

        speechRecognizer.startListening(speechI
ntent);
        });

```

```

        // Tombol huruf Haa
        hurufHaa.setOnClickListener(v ->
    {
        selectedLetter = "haa";

        tvResult.setText("Mendengarkan...");

        speechRecognizer.startListening(speechIntent);
    });

    // Tombol huruf Kho
    hurufKho.setOnClickListener(v ->
    {
        selectedLetter = "kho";

        tvResult.setText("Mendengarkan...");

        speechRecognizer.startListening(speechIntent);
    });

    // Tombol huruf Da
    hurufDa.setOnClickListener(v -> {
        selectedLetter = "da";

        tvResult.setText("Mendengarkan...");

        speechRecognizer.startListening(speechIntent);
    });

    // Tombol huruf Dza
    hurufDza.setOnClickListener(v ->
    {
        selectedLetter = "dza";

        tvResult.setText("Mendengarkan...");

        speechRecognizer.startListening(speechIntent);
    });

    // Tombol huruf Ro
    hurufRo.setOnClickListener(v -> {
        selectedLetter = "ro";

        tvResult.setText("Mendengarkan...");

        speechRecognizer.startListening(speechIntent);
    });

```

```

        intent);
    });

    // Menangani hasil pengucapan

    speechRecognizer.setRecognitionListener(new RecognitionListener() {
        @Override
        public void onResults(Bundle results) {
            ArrayList<String> resultList =
                results.getStringArrayList(SpeechRecognizer.RESULTS_RECOGNITION);
            if (resultList != null && !resultList.isEmpty()) {
                String spokenText =
                    resultList.get(0).toLowerCase().trim();
                HasilUcapan.setText("Anda menyebutkan: " + spokenText);

                // Tunda evaluasi untuk memberi waktu menampilkan pengucapan
                new
                Handler().postDelayed(() -> {
                    switch (selectedLetter) {
                        case "a":
                            handleAlif(spokenText);
                            break;
                        case "ba":
                            handleBa(spokenText);
                            break;
                        case "ta":
                            handleTa(spokenText);
                            break;
                        case "tsa":
                            handleTsa(spokenText);
                            break;
                        case "ja":
                            handleJim(spokenText);
                            break;
                        case "haa":
                            handleHaa(spokenText);
                            break;

```

```

        case "kho":
            handleKho(spokenText);
            break;
        case "da":
            handleDal(spokenText);
            break;
        case "dza":
            handleDzal(spokenText);
            break;
        case "ro":
            handleRo(spokenText);
            break;
        default:
            tvResult.setText("Huruf yang terdeteksi
            tidak dikenal.");
            break;
    }
    }, 1000); // Tunda 1 detik
}

@Override
public void onError(int error) {
    tvResult.setText("Gagal
    mendeteksi suara. Coba lagi.");
}

@Override
public void
onReadyForSpeech(Bundle params) {}
@Override
public void
onBeginningOfSpeech() {}
@Override
public void onRmsChanged(float
rmsdB) {}
@Override
public void
onBufferReceived(byte[] buffer) {}
@Override
public void onEndOfSpeech() {}
@Override
public void
onPartialResults(Bundle partialResults)
{}

```

```

@Override
public void onEvent(int
eventType, Bundle params) {}
});

// Meminta izin mikrofon jika belum
diberikan
if
(ContextCompat.checkSelfPermission(th
is,
Manifest.permission.RECORD_AUDIO)
!=
PackageManager.PERMISSION_GRAN
TED) {

    ActivityCompat.requestPermissions(this
    , new
    String[]{Manifest.permission.RECORD
    _AUDIO},
    REQUEST_RECORD_AUDIO_PERMIS
    SION);
}

// Fungsi untuk memutar suara
private void playSound(int
soundResource) {
    if (mediaPlayer != null) {
        mediaPlayer.release();
    }
    mediaPlayer =
    MediaPlayer.create(this,
    soundResource);
    mediaPlayer.start();
}

private void handleAlif(String
spokenText) {
    if (spokenText.equalsIgnoreCase("a
a")) {
        tvResult.setText("Huruf yang
        terdeteksi: a");
        playSound(R.raw.alif_benar);
    } else if (spokenText.contains("a"))
    {
        tvResult.setText("Anda hanya
        menyebutkan satu huruf: a.");
    }

    playSound(R.raw.satu_alif_salah);
} else {

```

```

        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.alif_salah);
    }
}

private void handleBa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ba ba")
|| spokenText.equalsIgnoreCase("baa
baa") ||
spokenText.equalsIgnoreCase("baba"))
{
        tvResult.setText("Huruf yang
terdeteksi: ba 'ب'");
        playSound(R.raw.ba_benar);
    } else if (spokenText.contains("ba")
|| spokenText.equalsIgnoreCase("baa"))
{
        tvResult.setText("Anda hanya
menyebutkan satu huruf: ba.");

        playSound(R.raw.satu_ba_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.ba_salah);
    }
}

private void handleTa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ta ta") ||
spokenText.equalsIgnoreCase("taa taa")
|| spokenText.equalsIgnoreCase("tata"))
{
        tvResult.setText("Huruf yang
terdeteksi: ta 'ت'");
        playSound(R.raw.ta_benar);
    } else if (spokenText.contains("ta")
|| spokenText.equalsIgnoreCase("taa")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: ta.");

        playSound(R.raw.satu_ta_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");

```

```

        playSound(R.raw.ta_salah);
    }
}

private void handleTsa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("tsa tsa")
|| spokenText.equalsIgnoreCase("sasa")
|| spokenText.equalsIgnoreCase("sa
sa") || spokenText.equalsIgnoreCase("saa
saa")) {
        tvResult.setText("Huruf yang
terdeteksi: tsa 'ث'");
        playSound(R.raw.tsa_benar);
    } else if
(spokenText.contains("tsa") ||
spokenText.equalsIgnoreCase("sa")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Tsa.");

        playSound(R.raw.satu_tsa_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.tsa_salah);
    }
}

private void handleJim(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ja ja") ||
spokenText.equalsIgnoreCase("jaa jaa "
)) {
        tvResult.setText("Huruf yang
terdeteksi: Ja 'ج'");
        playSound(R.raw.jim_benar);
    } else if (spokenText.contains("ja")
|| spokenText.equalsIgnoreCase("jaa")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Ja.");

        playSound(R.raw.satu_jim_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.jim_salah);
    }
}

```



```

        private void handleHaa(String
spokenText) {
            if
(spokenText.equalsIgnoreCase("haa
haa")) ||
spokenText.equalsIgnoreCase("ha ha ")
|| spokenText.equalsIgnoreCase("ha
ha")) {
                tvResult.setText("Huruf yang
terdeteksi: haa 'ح");
                playSound(R.raw.haa_benar);
            } else if
(spokenText.contains("haa") ||
spokenText.equalsIgnoreCase("ha") ||
spokenText.equalsIgnoreCase("ha")) {
                tvResult.setText("Anda hanya
menyebutkan satu huruf: haa.");

playSound(R.raw.satu_haa_salah);
            } else {
                tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
                playSound(R.raw.haa_salah);
            }
        }

        private void handleKho(String
spokenText) {
            if
(spokenText.equalsIgnoreCase("kho
kho")) ||
spokenText.equalsIgnoreCase("kh kh") ||
spokenText.equalsIgnoreCase("khoo
khoo")) ||
spokenText.equalsIgnoreCase("hoo
hoo")) ||
spokenText.equalsIgnoreCase("hoax
hoax")) ||
spokenText.equalsIgnoreCase("ho ho") ||
spokenText.equalsIgnoreCase("h h")) {
                tvResult.setText("Huruf yang
terdeteksi: kho 'خ");
                playSound(R.raw.kho_benar);
            } else if
(spokenText.contains("kho") ||
spokenText.equalsIgnoreCase("kh") ||
spokenText.equalsIgnoreCase("hoo") ||
spokenText.equalsIgnoreCase("ho") ||
spokenText.equalsIgnoreCase("hoax") ||

```

```

spokenText.equalsIgnoreCase("h")) {
                tvResult.setText("Anda hanya
menyebutkan satu huruf: kho.");

playSound(R.raw.satu_kho_salah);
            } else {
                tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
                playSound(R.raw.kho_salah);
            }
        }

        private void handleDal(String
spokenText) {
            if
(spokenText.equalsIgnoreCase("da da")
|| spokenText.equalsIgnoreCase("daa
daa")) {
                tvResult.setText("Huruf yang
terdeteksi: Da 'د");
                playSound(R.raw.dal_benar);
            } else if (spokenText.contains("da")
|| spokenText.equalsIgnoreCase("daa")) {
                tvResult.setText("Anda hanya
menyebutkan satu huruf: da.");

playSound(R.raw.satu_dal_salah);
            } else {
                tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
                playSound(R.raw.dal_salah);
            }
        }

        private void handleDzal(String
spokenText) {
            if
(spokenText.equalsIgnoreCase("dza
dza")) ||
spokenText.equalsIgnoreCase("za za")) {
                tvResult.setText("Huruf yang
terdeteksi: dza 'ذ");
                playSound(R.raw.dzal_benar);
            } else if
(spokenText.contains("dza") ||
spokenText.equalsIgnoreCase("za")) {
                tvResult.setText("Anda hanya
menyebutkan satu huruf: dza.");
            }
        }

```

```

playSound(R.raw.saru_dzal_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.dzal_salah);
    }
}

private void handleRo(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ro ro") ||
spokenText.equalsIgnoreCase("ra ra")) {
        tvResult.setText("Huruf yang
terdeteksi: Ro 'ر'");
        playSound(R.raw.ro_benar);
    } else if (spokenText.contains("ro")
|| spokenText.equalsIgnoreCase("ra")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Ro.");

playSound(R.raw.satu_ro_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.ro_salah);
    }
}

@Override
protected void onDestroy() {
    super.onDestroy();
    if (speechRecognizer != null) {
        speechRecognizer.destroy();
    }
    if (mediaPlayer != null) {
        mediaPlayer.release();
    }
}

@Override
public void
onRequestPermissionsResult(int
requestCode, @NonNull String[]
permissions, @NonNull int[]
grantResults) {

super.onRequestPermissionsResult(requ
estCode, permissions, grantResults);

```

```

        if (requestCode ==
REQUEST_RECORD_AUDIO_PERMIS
SION) {
            if (grantResults.length > 0 &&
grantResults[0] ==
PackageManager.PERMISSION_GRAN
TED) {
                // Permission granted, nothing
to do here
            } else {
                Toast.makeText(this,
"Permission to record audio is required",
Toast.LENGTH_SHORT).show();
            }
        }
    }
}

```

menyebutkan_huruf_2.java

```

package
com.example.koreksipenyebutanhijaiyah
;

import android.Manifest;
import android.annotation.SuppressLint;
import android.content.Intent;
import
android.content.pm.PackageManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.os.Handler;
import
android.speech.SpeechRecognizer;
import android.speech.RecognizerIntent;
import
android.speech.RecognitionListener;
import android.view.View;
import android.widget.ImageButton;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;
import
androidx.core.app.ActivityCompat;
import
androidx.core.content.ContextCompat;

```

```

import java.util.ArrayList;
import java.util.Locale;

public class menyebutkan_huruf_2
extends AppCompatActivity {

    private static final int
REQUEST_RECORD_AUDIO_PERMIS
SION = 1;
    private static final int
SPEECH_REQUEST_CODE = 2;

    private SpeechRecognizer
speechRecognizer;
    private TextView
tvResult, HasilUcapan;
    private ImageButton hurufZa,
hurufSa, hurufSy, hurufShod,
hurufDhod, hurufTho, hurufDzho,
hurufAa, hurufGho, hurufFa;
    private ImageButton kembali, lanjut;
    private MediaPlayer mediaPlayer;
    private String selectedLetter = "";
// Variabel untuk menyimpan huruf yang
dipilih
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_meny
ebutkan_huruf2);

        // Inisialisasi komponen UI
        tvResult =
findViewById(R.id.tv_result);
        HasilUcapan =
findViewById(R.id.hasil_ucapan);
        hurufZa = findViewById(R.id.za);
        hurufSa = findViewById(R.id.sa);
        hurufSy =
findViewById(R.id.sya);
        hurufShod =
findViewById(R.id.sho);
        hurufDhod =
findViewById(R.id.dho);
        hurufTho =
findViewById(R.id.tho);
        hurufDzho =
findViewById(R.id.dzho);
        hurufAa = findViewById(R.id.aa);
        hurufGho =
findViewById(R.id.gho);
        hurufFa = findViewById(R.id.fa);
        kembali =
findViewById(R.id.kembali);
        lanjut = findViewById(R.id.lanjut);

        // Tombol "Kembali"
        kembali.setOnClickListener(v -> {
            Intent intent = new
Intent(menyebutkan_huruf_2.this,
menyebutkan_huruf_1.class);
            startActivity(intent);
            finish();
        });

        // Tombol "Lanjut"
        lanjut.setOnClickListener(v -> {
            Intent intent = new
Intent(menyebutkan_huruf_2.this,
menyebutkan_huruf_3.class);
            startActivity(intent);
        });

        // Inisialisasi SpeechRecognizer
        speechRecognizer =
SpeechRecognizer.createSpeechRecogni
zer(this);
        Intent speechIntent = new
Intent(RecognizerIntent.ACTION_REC
OGNIZE_SPEECH);

        speechIntent.putExtra(RecognizerIntent.
EXTRA_LANGUAGE_MODEL,
RecognizerIntent.LANGUAGE_MODEL
_FREE_FORM);

        speechIntent.putExtra(RecognizerIntent.
EXTRA_LANGUAGE,
Locale.getDefault());

        // Tombol huruf Za
        hurufZa.setOnClickListener(v -> {
            selectedLetter = "za";

            tvResult.setText("Mendengarkan...");

```

```

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Sa
hurufSa.setOnClickListener(v -> {
    selectedLetter = "sa";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Sya
hurufSya.setOnClickListener(v -> {
    selectedLetter = "sya";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Shod
hurufShod.setOnClickListener(v -> {
    selectedLetter = "sho";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Dhod
hurufDhod.setOnClickListener(v -> {
    selectedLetter = "dho";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Tho
hurufTho.setOnClickListener(v -> {

```

```

        selectedLetter = "tho";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Dzho
hurufDzho.setOnClickListener(v -> {
    selectedLetter = "dzho";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Ain
hurufAa.setOnClickListener(v -> {
    selectedLetter = "aa";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Ghoin
hurufGho.setOnClickListener(v -> {
    selectedLetter = "gho";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

// Tombol huruf Fa
hurufFa.setOnClickListener(v -> {
    selectedLetter = "fa";

tvResult.setText("Mendengarkan...");

speechRecognizer.startListening(speechIntent);
});

```

// Menangani hasil pengucapan

```
speechRecognizer.setRecognitionListener(new RecognitionListener() {
    @Override
    public void onResults(Bundle results) {
        ArrayList<String> resultList =
            results.getStringArrayList(SpeechRecognizer.RESULTS_RECOGNITION);
        if (resultList != null && !resultList.isEmpty()) {
            String spokenText =
                resultList.get(0).toLowerCase().trim();
            HasilUcapan.setText("Anda menyebutkan: " + spokenText);
            // Tunda evaluasi untuk memberi waktu menampilkan pengucapan
            new Handler().postDelayed(() -> {
                switch (selectedLetter) {
                    case "za":

                        handleZay(spokenText);
                        break;
                    case "sa":

                        handleSa(spokenText);
                        break;
                    case "sya":

                        handleSyin(spokenText);
                        break;
                    case "sho":

                        handleShod(spokenText);
                        break;
                    case "dho":

                        handleDhod(spokenText);
                        break;
                    case "tho":

                        handleTho(spokenText);
                        break;
                    case "dzho":

                        handleDzho(spokenText);
                        break;
```

```
                    case "aa":

                        handleAin(spokenText);
                        break;
                    case "gho":

                        handleGhoin(spokenText);
                        break;
                    case "fa":

                        handleFa(spokenText);
                        break;
                    default:

                        tvResult.setText("Huruf yang terdeteksi tidak dikenal.");
                        break;
                }
            }, 1000); // Tunda 1 detik
        }
    }

    @Override
    public void onError(int error) {
        tvResult.setText("Gagal mendeteksi suara. Coba lagi.");
    }

    @Override
    public void
    onReadyForSpeech(Bundle params) {}
    @Override
    public void
    onBeginningOfSpeech() {}
    @Override
    public void onRmsChanged(float rmsdB) {}
    @Override
    public void
    onBufferReceived(byte[] buffer) {}
    @Override
    public void onEndOfSpeech() {}
    @Override
    public void
    onPartialResults(Bundle partialResults) {}
    @Override
    public void onEvent(int eventType, Bundle params) {}
});
```

```

// Meminta izin mikrofon jika belum
diberikan
    if
(ContextCompat.checkSelfPermission(th
is,
Manifest.permission.RECORD_AUDIO)
!=
PackageManager.PERMISSION_GRANTED) {

    ActivityCompat.requestPermissions(this
, new
String[]{Manifest.permission.RECORD
_AUDIO},
REQUEST_RECORD_AUDIO_PERMIS
SION);
    }

// Fungsi untuk memutar suara
    private void playSound(int
soundResource) {
        if (mediaPlayer != null) {
            mediaPlayer.release();
        }
        mediaPlayer =
MediaPlayer.create(this,
soundResource);
        mediaPlayer.start();
    }

    private void handleZay(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("za za")
|| spokenText.equalsIgnoreCase("zaa
za")) {
            tvResult.setText("Huruf yang
terdeteksi: za 'ز');
            playSound(R.raw.zay_benar);
        } else if (spokenText.contains("za")
|| spokenText.equalsIgnoreCase("zaa") )
{
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Za.");

            playSound(R.raw.satu_zay_salah);
        } else {
            tvResult.setText("Huruf yang

```

```

terdeteksi tidak dikenal.");
            playSound(R.raw.zay_salah);
        }
    }

    private void handleSa(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("sa sa") ||
spokenText.equalsIgnoreCase("sasa") ||
spokenText.equalsIgnoreCase("sha sha")
|| spokenText.equalsIgnoreCase("saa
saa")) {
            tvResult.setText("Huruf yang
terdeteksi: Sa 'س');
            playSound(R.raw.sin_benar);
        } else if (spokenText.contains("sa")
|| spokenText.equalsIgnoreCase("sha") ||
spokenText.equalsIgnoreCase("saa")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Sa.");

            playSound(R.raw.satu_sin_benar);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.sin_salah);
        }
    }

    private void handleSyin(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("sya
sya") ||
spokenText.equalsIgnoreCase("syha
syha") ||
spokenText.equalsIgnoreCase("sha sha")
) {
            tvResult.setText("Huruf yang
terdeteksi: Sya 'ش');
            playSound(R.raw.syin_benar);
        } else if
(spokenText.contains("sya") ||
spokenText.equalsIgnoreCase("syha") ||
spokenText.equalsIgnoreCase("sha")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Sya.");

            playSound(R.raw.satu_syin_salah);

```

```

        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.syin_salah);
        }
    }

    private void handleShod(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("sho
sho")) ||
spokenText.equalsIgnoreCase("shod
shod") ||
spokenText.equalsIgnoreCase("sod
sod") ||
spokenText.equalsIgnoreCase("so so") )
{
            tvResult.setText("Huruf yang
terdeteksi: Sho 'ص');
            playSound(R.raw.shod_benar);
        } else if
(spokenText.contains("sho") ||
spokenText.equalsIgnoreCase("shod") ||
spokenText.equalsIgnoreCase("sod") ||
spokenText.equalsIgnoreCase("so")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Sho.");

            playSound(R.raw.satu_shod_salah);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.shod_salah);
        }
    }

    private void handleDhod(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("dho
dho")) ||
spokenText.equalsIgnoreCase("dhod
dhod") ||
spokenText.equalsIgnoreCase("do do") ||
spokenText.equalsIgnoreCase("dod
dod") ) {
            tvResult.setText("Huruf yang
terdeteksi: Dho 'ض');
            playSound(R.raw.dhod_benar);

```

```

        } else if
(spokenText.contains("dho") ||
spokenText.equalsIgnoreCase("dhod") ||
spokenText.equalsIgnoreCase("dod") ||
spokenText.equalsIgnoreCase("do") ) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Dho.");

            playSound(R.raw.satu_dhod_salah);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.dhod_salah);
        }
    }

    private void handleTho(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("tho
tho")) ||
spokenText.equalsIgnoreCase("to to") ||
spokenText.equalsIgnoreCase("toh
toh")) {
            tvResult.setText("Huruf yang
terdeteksi: Tho 'ط');
            playSound(R.raw.tho_benar);
        } else if
(spokenText.contains("tho") ||
spokenText.equalsIgnoreCase("to") ||
spokenText.equalsIgnoreCase("toh")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Tho'.");

            playSound(R.raw.satu_tho_salah);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.tho_salah);
        }
    }

    private void handleDzho(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("dzho
dzho")) ||
spokenText.equalsIgnoreCase("zo zo") ||
spokenText.equalsIgnoreCase("zho
zho") ||

```

```

spokenText.equalsIgnoreCase("zoz
zoz") ||
spokenText.equalsIgnoreCase("zoe
zoe") ||
spokenText.equalsIgnoreCase("zoh
zoh") ||
spokenText.equalsIgnoreCase("zoo
zoo") ||
spokenText.equalsIgnoreCase("za za"))
{
    tvResult.setText("Huruf yang
terdeteksi: Dzho 'ظ');

    playSound(R.raw.dzho_benar_1);
} else if
(spokenText.contains("dzho") ||
spokenText.equalsIgnoreCase("zo") ||
spokenText.equalsIgnoreCase("zho") ||
spokenText.equalsIgnoreCase("zoz") ||
spokenText.equalsIgnoreCase("zoe") ||
spokenText.equalsIgnoreCase("zoh") ||
spokenText.equalsIgnoreCase("zoo") ||
spokenText.equalsIgnoreCase("za ")) {
    tvResult.setText("Anda hanya
menyebutkan satu huruf: Dzho.");

    playSound(R.raw.satu_dzho_salah_1);
} else {
    tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");

    playSound(R.raw.dzho_salah_1);
}

private void handleAin(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("a' a")) {
        tvResult.setText("Huruf yang
terdeteksi: A' 'ع');
        playSound(R.raw.ain_benar);
    } else if (spokenText.contains("a"))
    {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: A'.");

        playSound(R.raw.satu_ain_salah);
    } else {
        tvResult.setText("Huruf yang

```

```

terdeteksi tidak dikenal.");
        playSound(R.raw.ain_salah);
    }
}

private void handleGho(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("gho
gho") ||
spokenText.equalsIgnoreCase("go go") ||
spokenText.equalsIgnoreCase("goh
goh")) {
        tvResult.setText("Huruf yang
terdeteksi: Gho 'غ');
        playSound(R.raw.ghoin_benar);
    } else if
(spokenText.contains("gho") ||
spokenText.equalsIgnoreCase("go") ||
spokenText.equalsIgnoreCase("goh")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Gho.");

        playSound(R.raw.satu_ghoin_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.ghoin_salah);
    }
}

private void handleFa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("fa fa") ||
spokenText.equalsIgnoreCase("va va") ||
spokenText.equalsIgnoreCase("faa faa")
|| spokenText.equalsIgnoreCase("fah
fah") ||
spokenText.equalsIgnoreCase("vava") ||
spokenText.equalsIgnoreCase("va fa") ||
spokenText.equalsIgnoreCase("fafa")) {
        tvResult.setText("Huruf yang
terdeteksi: Fa 'ف');
        playSound(R.raw.fa_benar);
    } else if (spokenText.contains("fa")
|| spokenText.equalsIgnoreCase("va") ||
spokenText.equalsIgnoreCase("faa") ||
spokenText.equalsIgnoreCase("fah")) {
        tvResult.setText("Anda hanya

```


menyebutkan satu huruf: Fa.");

```
playSound(R.raw.satu_fa_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.fa_salah);
    }
}
```

```
@Override
protected void onDestroy() {
    super.onDestroy();
    if (speechRecognizer != null) {
        speechRecognizer.destroy();
    }
    if (mediaPlayer != null) {
        mediaPlayer.release();
    }
}

@Override
public void
onRequestPermissionsResult(int
requestCode, @NonNull String[]
permissions, @NonNull int[]
grantResults) {

    super.onRequestPermissionsResult(requ
estCode, permissions, grantResults);
    if (requestCode ==
REQUEST_RECORD_AUDIO_PERMIS
SION) {
        if (grantResults.length > 0 &&
grantResults[0] ==
PackageManager.PERMISSION_GRAN
TED) {
            // Izin diberikan, tidak perlu
apa-apa
        } else {
            Toast.makeText(this, "Izin
mikrofon diperlukan untuk mendeteksi
suara.",
Toast.LENGTH_SHORT).show();
            finish();
        }
    }
}
```

menyebutkan_huruf_2.java

```
package
com.example.koreksipenyebutanhijaiyah
;
```

```
import android.Manifest;
import android.annotation.SuppressLint;
import android.content.Intent;
import
android.content.pm.PackageManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.os.Handler;
import
android.speech.SpeechRecognizer;
import android.speech.RecognizerIntent;
import
android.speech.RecognitionListener;
import android.view.View;
import android.widget.ImageButton;
import android.widget.TextView;
import android.widget.Toast;
```

```
import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;
import
androidx.core.app.ActivityCompat;
import
androidx.core.content.ContextCompat;
```

```
import java.util.ArrayList;
import java.util.Locale;
```

```
public class menyebutkan_huruf_3
extends AppCompatActivity {
```

```
    private static final int
REQUEST_RECORD_AUDIO_PERMIS
SION = 1;
    private static final int
SPEECH_REQUEST_CODE = 2;

    private SpeechRecognizer
speechRecognizer;
    private TextView
tvResult, HasilUcapan;
```

```

        private ImageButton hurufQo,
        hurufKa, hurufLa, hurufMa, hurufNa,
        hurufWa, hurufHa, hurufYa;
        private ImageButton kembali;
        private MediaPlayer mediaPlayer;
        private String selectedLetter = "";
        // Variabel untuk menyimpan huruf yang
        dipilih

        @SuppressWarnings("MissingInflatedId")
        @Override
        protected void onCreate(Bundle
        savedInstanceState) {

            super.onCreate(savedInstanceState);

            setContentView(R.layout.activity_menyebutkan_huruf3);

            // Inisialisasi komponen UI
            tvResult =
            findViewById(R.id.tv_result);
            HasilUcapan =
            findViewById(R.id.hasil_ucapan);
            hurufQo = findViewById(R.id.qo);
            hurufKa = findViewById(R.id.ka);
            hurufLa = findViewById(R.id.la);
            hurufMa =
            findViewById(R.id.ma);
            hurufNa = findViewById(R.id.na);
            hurufWa =
            findViewById(R.id.wa);
            hurufHa = findViewById(R.id.ha);
            hurufYa = findViewById(R.id.ya);
            kembali =
            findViewById(R.id.kembali);

            // Tombol "Kembali"
            kembali.setOnClickListener(v -> {
                Intent intent = new
                Intent(menyebutkan_huruf_3.this,
                menyebutkan_huruf_2.class);
                startActivity(intent);
                finish();
            });

            // Inisialisasi SpeechRecognizer
            speechRecognizer =
            SpeechRecognizer.createSpeechRecogni

```

```

            zer(this);
            Intent speechIntent = new
            Intent(RecognizerIntent.ACTION_REC
            OGNIZE_SPEECH);

            speechIntent.putExtra(RecognizerIntent.
            EXTRA_LANGUAGE_MODEL,
            RecognizerIntent.LANGUAGE_MODE
            L_FREE_FORM);

            speechIntent.putExtra(RecognizerIntent.
            EXTRA_LANGUAGE,
            Locale.getDefault());

            // Tombol huruf Qo
            hurufQo.setOnClickListener(v -> {
                selectedLetter = "qo";

                tvResult.setText("Mendengarkan...");

                speechRecognizer.startListening(speechI
                ntent);
            });

            // Tombol huruf Ka
            hurufKa.setOnClickListener(v -> {
                selectedLetter = "kaf";

                tvResult.setText("Mendengarkan...");

                speechRecognizer.startListening(speechI
                ntent);
            });

            // Tombol huruf La
            hurufLa.setOnClickListener(v -> {
                selectedLetter = "la";

                tvResult.setText("Mendengarkan...");

                speechRecognizer.startListening(speechI
                ntent);
            });

            // Tombol huruf Ma
            hurufMa.setOnClickListener(v -> {
                selectedLetter = "ma";

                tvResult.setText("Mendengarkan...");

```



```

tvResult.setText("Huruf yang terdeteksi
tidak dikenal.");
        break;
    }
    }, 1000); // Tunda 1 detik
}

@Override
public void onError(int error) {
    tvResult.setText("Gagal
mendeteksi suara. Coba lagi.");
}

@Override
public void
onReadyForSpeech(Bundle params) {}
@Override
public void
onBeginningOfSpeech() {}
@Override
public void onRmsChanged(float
rmsdB) {}
@Override
public void
onBufferReceived(byte[] buffer) {}
@Override
public void onEndOfSpeech() {}
@Override
public void
onPartialResults(Bundle partialResults)
{}
@Override
public void onEvent(int
eventType, Bundle params) {}
});

// Meminta izin mikrofon jika belum
diberikan
if
(ContextCompat.checkSelfPermission(th
is,
Manifest.permission.RECORD_AUDIO
) !=
PackageManager.PERMISSION_GRAN
TED) {

    ActivityCompat.requestPermissions(this
, new

```

```

String[]{Manifest.permission.RECORD
_AUDIO},
REQUEST_RECORD_AUDIO_PERMI
SSION);
    }
}

// Fungsi untuk memutar suara
private void playSound(int
soundResource) {
    if (mediaPlayer != null) {
        mediaPlayer.release();
    }
    mediaPlayer =
MediaPlayer.create(this,
soundResource);
    mediaPlayer.start();
}

private void handleQof(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("qo qo")
|| spokenText.equalsIgnoreCase("ko ko")
|| spokenText.equalsIgnoreCase("ka ka")
|| spokenText.equalsIgnoreCase("qa
qa")) {
        tvResult.setText("Huruf yang
terdeteksi: Qo 'ق");
        playSound(R.raw.qof_benar);
    } else if
(spokenText.contains("qo") ||
spokenText.equalsIgnoreCase("ko") ||
spokenText.equalsIgnoreCase("ka") ||
spokenText.equalsIgnoreCase("qa")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Qo.");

        playSound(R.raw.satu_qof_salah);
    } else {
        tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
        playSound(R.raw.qof_salah);
    }
}

private void handleKaf(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ka ka")

```

```

|| spokenText.equalsIgnoreCase("kah
kah") ||
spokenText.equalsIgnoreCase("kha
kha") ||
spokenText.equalsIgnoreCase("kaa
kaa")) {
    tvResult.setText("Huruf yang
terdeteksi: Ka 'ك'");
    playSound(R.raw.kaf_benar);
} else if
(spokenText.equalsIgnoreCase("ka") ||
spokenText.equalsIgnoreCase("kah") ||
spokenText.equalsIgnoreCase("kha") ||
spokenText.equalsIgnoreCase("kaa")) {
    tvResult.setText("Anda hanya
menyebutkan satu huruf: Ka.");

playSound(R.raw.satu_kaf_salah);
} else {
    tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
    playSound(R.raw.kaf_salah);
}
}

private void handleLam(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("la la") ||
spokenText.equalsIgnoreCase("laa laa")) {
        {
            tvResult.setText("Huruf yang
terdeteksi: La 'ل'");
            playSound(R.raw.lam_benar);
        } else if
(spokenText.equalsIgnoreCase("la") ||
spokenText.equalsIgnoreCase("laa")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: La.");

playSound(R.raw.satu_lam_salah);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.lam_salah);
        }
    }
}

private void handleMim(String
spokenText) {

```

```

        if
(spokenText.equalsIgnoreCase("ma
ma") ||
spokenText.equalsIgnoreCase("maa
maa")) {
            tvResult.setText("Huruf yang
terdeteksi: Ma 'م'");
            playSound(R.raw.mim_benar);
        } else if
(spokenText.equalsIgnoreCase("ma") ||
spokenText.equalsIgnoreCase("maa")) {
            {
                tvResult.setText("Anda hanya
menyebutkan satu huruf: Ma.");

playSound(R.raw.satu_mim_salah);
            } else {
                tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
                playSound(R.raw.mim_salah);
            }
        }
    }

    private void handleNun(String
spokenText) {
        if
(spokenText.equalsIgnoreCase("na na")
|| spokenText.equalsIgnoreCase("naa
naa")) {
            tvResult.setText("Huruf yang
terdeteksi: Na 'ن'");
            playSound(R.raw.nun_benar);
        } else if
(spokenText.equalsIgnoreCase("na") ||
spokenText.equalsIgnoreCase("naa
naa")) {
            tvResult.setText("Anda hanya
menyebutkan satu huruf: Na.");

playSound(R.raw.satu_nun_salah);
        } else {
            tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
            playSound(R.raw.nun_salah);
        }
    }
}

    private void handleWaw(String
spokenText) {
        if

```

```

(spokenText.equalsIgnoreCase("wa wa")
|| spokenText.equalsIgnoreCase("wa
wa")) ||
spokenText.equalsIgnoreCase("wau
wau")) ||
spokenText.equalsIgnoreCase("woa
woa")) {
    tvResult.setText("Huruf yang
terdeteksi: Wa 'و');
    playSound(R.raw.waw_benar);
} else if
(spokenText.equalsIgnoreCase("wa") ||
spokenText.equalsIgnoreCase("wa") ||
spokenText.equalsIgnoreCase("wau") ||
spokenText.equalsIgnoreCase("woa")) {
    tvResult.setText("Anda hanya
menyebutkan satu huruf: Wa.");

playSound(R.raw.satu_waw_salah);
} else {
    tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
    playSound(R.raw.waw_salah);
}

private void handleHa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ha ha")
|| spokenText.equalsIgnoreCase("hah
hah")) ||
spokenText.equalsIgnoreCase("haa
haa") || spokenText.equalsIgnoreCase("h
h")) {
        tvResult.setText("Huruf yang
terdeteksi: Ha 'ه');
        playSound(R.raw.ha_benar);
    } else if
(spokenText.equalsIgnoreCase("ha") ||
spokenText.equalsIgnoreCase("hah") ||
spokenText.equalsIgnoreCase("haa") ||
spokenText.equalsIgnoreCase("h")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Ha.");

playSound(R.raw.satu_ha_salah);
} else {
    tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");

```

```

        playSound(R.raw.ha_salah);
    }
}

private void handleYa(String
spokenText) {
    if
(spokenText.equalsIgnoreCase("ya ya")
|| spokenText.equalsIgnoreCase("yaa
yaa")) ||
spokenText.equalsIgnoreCase("iya
iya")) {
        tvResult.setText("Huruf yang
terdeteksi: Ya 'ي');
        playSound(R.raw.ya_benar);
    } else if
(spokenText.equalsIgnoreCase("ya") ||
spokenText.equalsIgnoreCase("yaa") ||
spokenText.equalsIgnoreCase("y")) {
        tvResult.setText("Anda hanya
menyebutkan satu huruf: Ya.");

playSound(R.raw.satu_ya_salah);
} else {
    tvResult.setText("Huruf yang
terdeteksi tidak dikenal.");
    playSound(R.raw.ya_salah);
}
}

@Override
protected void onDestroy() {
    super.onDestroy();
    if (speechRecognizer != null) {
        speechRecognizer.destroy();
    }
    if (mediaPlayer != null) {
        mediaPlayer.release();
    }
}

@Override
public void
onRequestPermissionsResult(int
requestCode, @NonNull String[]
permissions, @NonNull int[]
grantResults) {

super.onRequestPermissionsResult(requ
estCode, permissions, grantResults);

```

```

        if (requestCode ==
REQUEST_RECORD_AUDIO_PERMI
SSION) {
            if (grantResults.length > 0 &&
grantResults[0] ==
PackageManager.PERMISSION_GRAN
TED) {
                // Izin diberikan, tidak perlu
apa-apa
            } else {
                Toast.makeText(this, "Izin
mikrofon diperlukan untuk mendeteksi
suara.",
Toast.LENGTH_SHORT).show();
                finish();
            }
        }
    }
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-
8"?>
<androidx.constraintlayout.widget.Const
rainerLayout
xmlns:android="http://schemas.android.
com/apk/res/android"

xmlns:app="http://schemas.android.com
/apk/res-auto"

xmlns:tools="http://schemas.android.co
m/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/backg
round_1"
    tools:context=".MainActivity">

    <ImageView
        android:id="@+id/logo"
        android:layout_width="431dp"
        android:layout_height="267dp"

```

```

        android:layout_marginTop="4dp"

        android:contentDescription="@string/lo
go"

        app:layout_constraintTop_toTopOf="pa
rent"
        app:srcCompat="@drawable/logo"
        tools:ignore="MissingConstraints"
        tools:layout_editor_absoluteX="-
1dp" />

```

```

<ImageView
    android:id="@+id/oke"
    android:layout_width="234dp"
    android:layout_height="374dp"

```

```

    android:layout_marginTop="184dp"

    android:contentDescription="@string/ok
e"
    app:layout_constraintEnd_toEndOf="pa
rent"

    app:layout_constraintHorizontal_bias="
0.434"

    app:layout_constraintStart_toStartOf="p
arent"

    app:layout_constraintTop_toTopOf="pa
rent"
    app:srcCompat="@drawable/oke_"
/>

```

```

<ImageButton
    android:id="@+id/mulai"
    android:layout_width="261dp"
    android:layout_height="125dp"

```

```

    android:layout_marginTop="476dp"

    android:background="@drawable/mulai

```

—

android:contentDescription="Tombol
untuk mulai aplikasi"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="@+id/logo"

tools:ignore="MissingConstraints"

/>

<ImageButton

android:id="@+id/keluar"

android:layout_width="92dp"

android:layout_height="101dp"

android:layout_marginBottom="4dp"

android:background="@drawable/keluar"

—

android:contentDescription="Tombol
untuk info aplikasi"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.949"

app:layout_constraintStart_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

activity_mulai.xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/main"

android:layout_width="match_parent"

android:layout_height="match_parent"

android:background="@drawable/background_1"

android:descendantFocusability="afterDescendants"

tools:context=".ActivityMulai">

<ImageButton

android:id="@+id/kembali"

android:layout_width="79dp"

android:layout_height="72dp"

android:layout_marginEnd="324dp"

android:background="@drawable/kembali_1"

android:contentDescription="Tombol
untuk memulai fitur kembali"

app:layout_constraintEnd_toEndOf="parent"

tools:ignore="MissingConstraints"

tools:layout_editor_absoluteY="16dp" />

<ImageButton

android:id="@+id/mengenal"

android:layout_width="202dp"


```

        android:layout_height="219dp"

        android:layout_marginTop="120dp"

        android:background="@drawable/mengenal"

        android:contentDescription="Tombol untuk memulai fitur mengenal"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.401"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

        <ImageButton
            android:id="@+id/menyebut"
            android:layout_width="203dp"
            android:layout_height="222dp"

            android:background="@drawable/menyebut"

            android:contentDescription="Tombol untuk memulai fitur menyebut"

            app:layout_constraintBottom_toBottomOf="parent"

            app:layout_constraintEnd_toEndOf="parent"

            app:layout_constraintStart_toStartOf="parent"

            app:layout_constraintTop_toTopOf="parent"

            app:layout_constraintVertical_bias="0.74" />

    </androidx.constraintlayout.widget.ConstraintLayout>

```

activity_mengenal_huruf1.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"
        android:layout_width="match_parent"

        android:layout_height="match_parent"

        android:background="@drawable/background_2"
        tools:context=".mengenal_huruf">

    <!-- Tombol Kembali -->
    <ImageButton
        android:id="@+id/kembali"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

        android:background="@drawable/kembali_"

        android:contentDescription="Tombol kembali"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintStart_toStartOf="parent" />

    <!-- Tombol Lanjut -->
    <ImageButton
        android:id="@+id/lanjut"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

        android:background="@drawable/lanjut

```

```

_ "
android:contentDescription="Tombol
lanjut"

app:layout_constraintTop_toTopOf="pa
rent"

app:layout_constraintEnd_toEndOf="pa
rent" />

<!-- Susunan huruf menggunakan
LinearLayout -->
    <LinearLayout
        android:id="@+id/container_huruf"
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:orientation="vertical"

app:layout_constraintStart_toStartOf="p
arent"

app:layout_constraintEnd_toEndOf="pa
rent"

app:layout_constraintTop_toBottomOf=
"@id/kembali"

android:layout_marginTop="100dp">

<!-- Baris 1 -->
    <LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"
        android:orientation="horizontal"

android:layout_marginBottom="16dp">

<!-- Huruf ta -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ta"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/ta_"

            android:contentDescription="Huruf Ta"
        />

        <ImageButton
            android:id="@+id/huruf_ta"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
            _ta_"

            android:contentDescription="Nama
            huruf Ta"

            tools:ignore="TouchTargetSizeCheck"/
            >
        </LinearLayout>

    <!-- Huruf Ba -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ba"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/ba_"

            android:contentDescription="Huruf Ba"
        />

        <ImageButton

```

<pre> android:id="@+id/huruf_ba" android:layout_width="94dp" android:layout_height="21dp" android:background="@drawable/huruf_ba_" android:contentDescription="Nama huruf Ba" tools:ignore="TouchTargetSizeCheck"/ > </LinearLayout> <!-- Huruf Alif --> <LinearLayout android:layout_width="0dp" android:layout_height="wrap_content" android:layout_weight="1" android:orientation="vertical" android:gravity="center"> <ImageButton android:id="@+id/alif" android:layout_width="96dp" android:layout_height="100dp" android:scaleType="fitCenter" android:background="@drawable/alif_" android:contentDescription="Huruf Alif" "/> <ImageButton android:id="@+id/huruf_alif" android:layout_width="94dp" android:layout_height="21dp" android:scaleType="fitCenter" android:background="@drawable/huruf </pre>	<pre> _alif_" android:contentDescription="Nama huruf Alif" tools:ignore="TouchTargetSizeCheck"/ > </LinearLayout> </LinearLayout> <!-- Baris 2 --> <LinearLayout android:layout_width="match_parent" android:layout_height="wrap_content" android:orientation="horizontal" android:layout_marginBottom="16dp"> <!-- Huruf ha --> <LinearLayout android:layout_width="0dp" android:layout_height="wrap_content" android:layout_weight="1" android:orientation="vertical" android:gravity="center"> <ImageButton android:id="@+id/haa" android:layout_width="96dp" android:layout_height="100dp" android:background="@drawable/haa_" android:contentDescription="Huruf Haa" /> <ImageButton android:id="@+id/huruf_haa" android:layout_width="94dp" android:layout_height="21dp" android:background="@drawable/huruf </pre>
--	---

```

_haa_"

android:contentDescription="Nama
huruf Haa"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf jim -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/jim"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/jim_"

            android:contentDescription="Huruf Jim"
            />

        <ImageButton

            android:id="@+id/huruf_jim"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
            _jim_"

            android:contentDescription="Nama
            huruf jim"

            tools:ignore="TouchTargetSizeCheck"/
            >

            </LinearLayout>
        </LinearLayout>

<!-- Huruf tsa -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/tsa"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:scaleType="fitCenter"

            android:background="@drawable/tsa_"

            android:contentDescription="Huruf_tsa"
            />

        <ImageButton

            android:id="@+id/huruf_tsa"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:scaleType="fitCenter"

            android:background="@drawable/huruf
            _tsa_"

            android:contentDescription="Nama
            huruf Tsa"

            tools:ignore="TouchTargetSizeCheck"/
            >

            </LinearLayout>
        </LinearLayout>

<!-- Baris 3 -->
    <LinearLayout
        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:orientation="horizontal"

        android:layout_marginBottom="16dp">

```

```

<!-- Huruf dzal -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/dzal"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/dzal_"

        android:contentDescription="Huruf dzal" />

    <ImageButton
        android:id="@+id/huruf_dzal"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf_dzal_"

        android:contentDescription="Nama huruf dzal"

        tools:ignore="TouchTargetSizeCheck"/>
</LinearLayout>

<!-- Huruf dal -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/dal"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/dal_"

        android:contentDescription="Huruf Dal" />

    <ImageButton
        android:id="@+id/huruf_dal"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf_dal_"

        android:contentDescription="Nama huruf dal"

        tools:ignore="TouchTargetSizeCheck"/>
</LinearLayout>

<!-- Huruf kho -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/kho"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/kho_"

        android:contentDescription="Huruf Kho" />

```

```

        <ImageButton
            android:id="@+id/huruf_kho"
            android:layout_width="94dp"
            android:layout_height="21dp"
            android:background="@drawable/huruf_kho_"
            android:contentDescription="Nama huruf Kho"
            tools:ignore="TouchTargetSizeCheck"/>
        </LinearLayout>
    </LinearLayout>

<!-- Baris 4 -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginBottom="16dp">

<!-- Huruf ro -->
    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ro"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/ro_"

            android:contentDescription="Huruf ro"
            />

```

```

        <ImageButton
            android:id="@+id/huruf_ro"
            android:layout_width="94dp"
            android:layout_height="21dp"
            android:background="@drawable/huruf_ro_"
            android:contentDescription="Nama huruf ro"
            tools:ignore="TouchTargetSizeCheck"/>
        </LinearLayout>
    </LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

activity_mengenal_huruf2.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/background_2"
    tools:context=".mengenal_huruf">

<!-- Tombol Kembali -->
    <ImageButton
        android:id="@+id/kembali"

```

```

        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

android:background="@drawable/kembali_"

android:contentDescription="Tombol
kembali"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintStart_toStartOf="parent" />

<!-- Tombol Lanjut -->
<ImageButton
    android:id="@+id/lanjut"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:layout_margin="16dp"

    android:background="@drawable/lanjut_"

    android:contentDescription="Tombol
    lanjut"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintEnd_toEndOf="parent" />

    <!-- Susunan huruf menggunakan
    LinearLayout -->
    <LinearLayout
        android:id="@+id/container_huruf"
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:orientation="vertical"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

```

```

        app:layout_constraintTop_toBottomOf=
        "@id/kembali"

        android:layout_marginTop="100dp">

        <!-- Baris 1 -->
        <LinearLayout

            android:layout_width="match_parent"

            android:layout_height="wrap_content"
            android:orientation="horizontal"

            android:layout_marginBottom="16dp">

            <!-- Huruf syin -->
            <LinearLayout
                android:layout_width="0dp"

                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:orientation="vertical"
                android:gravity="center">

                <ImageButton
                    android:id="@+id/syin"

                    android:layout_width="96dp"

                    android:layout_height="100dp"

                    android:background="@drawable/syin_"

                    android:contentDescription="Huruf
                    syin" />

                    <ImageButton

                        android:id="@+id/huruf_syin"

                        android:layout_width="94dp"

                        android:layout_height="21dp"

                        android:background="@drawable/huruf
                        _syin_"

                        android:contentDescription="Nama
                        huruf syin"

```

```

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf sin -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/sin"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/sin_"

            android:contentDescription="Huruf sin"
            />

        <ImageButton

            android:id="@+id/huruf_sin"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
            _sin_"

            android:contentDescription="Nama
            huruf sin"

            tools:ignore="TouchTargetSizeCheck"/
            >

            </LinearLayout>

<!-- Huruf zay -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"

        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/zay"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:scaleType="fitCenter"

            android:background="@drawable/zay_"

            android:contentDescription="Huruf_zay
            " />

        <ImageButton

            android:id="@+id/huruf_zay"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:scaleType="fitCenter"

            android:background="@drawable/huruf
            _zay_"

            android:contentDescription="Nama
            huruf zay"

            tools:ignore="TouchTargetSizeCheck"/
            >

            </LinearLayout>

<!-- Baris 2 -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:orientation="horizontal"

        android:layout_marginBottom="16dp">

        <!-- Huruf tho -->
            <LinearLayout

```



```

        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/tho"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/tho_"

        android:contentDescription="Huruf tho"
        />

        <ImageButton

        android:id="@+id/huruf_tho"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf
        _tho_"

        android:contentDescription="Nama
        huruf Tho"

        tools:ignore="TouchTargetSizeCheck"/
        >

        </LinearLayout>

        <!-- Huruf dhod -->
        <LinearLayout
            android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/dhod"

        android:layout_width="96dp"

```

```

        android:layout_height="100dp"

        android:background="@drawable/dhod_
        "

        android:contentDescription="Huruf
        dhod" />

        <ImageButton

        android:id="@+id/huruf_dhod"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf
        _dhod_"

        android:contentDescription="Nama
        huruf dhod"

        tools:ignore="TouchTargetSizeCheck"/
        >

        </LinearLayout>

        <!-- Huruf shod -->
        <LinearLayout
            android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/shod"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:scaleType="fitCenter"

        android:background="@drawable/shod_
        "

        android:contentDescription="Huruf_sho
        d" />

```

```

        <ImageButton
            android:id="@+id/huruf_shod"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:scaleType="fitCenter"

            android:background="@drawable/huruf_shod_"

            android:contentDescription="Nama huruf shod"

            tools:ignore="TouchTargetSizeCheck"/>
        </ImageButton>
    </LinearLayout>

    <!-- Baris 3 -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:orientation="horizontal"

        android:layout_marginBottom="16dp">

        <!-- Huruf ghoin -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:orientation="vertical"
            android:gravity="center">

            <ImageButton
                android:id="@+id/ghoin"

                android:layout_width="96dp"

                android:layout_height="100dp"

                android:background="@drawable/ghoin_"

```

```

            android:contentDescription="Huruf ghoin" />

            <ImageButton

                android:id="@+id/huruf_ghoin"

                android:layout_width="94dp"

                android:layout_height="21dp"

                android:background="@drawable/huruf_ghoin_"

                android:contentDescription="Nama huruf ghoin"

                tools:ignore="TouchTargetSizeCheck"/>
            </ImageButton>

        <!-- Huruf ain -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:orientation="vertical"
            android:gravity="center">

            <ImageButton
                android:id="@+id/ain"

                android:layout_width="96dp"

                android:layout_height="100dp"

                android:background="@drawable/ain_"

                android:contentDescription="Huruf ain" />

            <ImageButton

                android:id="@+id/huruf_ain"

                android:layout_width="94dp"

                android:layout_height="21dp"

```

```

        android:background="@drawable/huruf_ain_"

        android:contentDescription="Nama huruf ain"

        tools:ignore="TouchTargetSizeCheck"/>
    </LinearLayout>

<!-- Huruf dzho -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/dzho"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/dzho_"

            android:contentDescription="Huruf dzho" />

        <ImageButton

            android:id="@+id/huruf_dzho"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf_dzho_"

            android:contentDescription="Nama huruf dzho"

            tools:ignore="TouchTargetSizeCheck"/>
    </LinearLayout>

```

```

    </LinearLayout>

<!-- Baris 4 -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:orientation="horizontal"

        android:layout_marginBottom="16dp">

<!-- Huruf fa -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/fa"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/fa_"

            android:contentDescription="Huruf fa" />

        <ImageButton

            android:id="@+id/huruf_fa"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf_fa_"

            android:contentDescription="Nama huruf fa"

            tools:ignore="TouchTargetSizeCheck"/>
    </LinearLayout>

```

```

</LinearLayout>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

activity_mengenal_huruf3.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"
        android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/background_2"
        tools:context=".mengenal_huruf">

    <!-- Tombol Kembali -->
    <ImageButton
        android:id="@+id/kembali"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

    android:background="@drawable/kembali_"

    android:contentDescription="Tombol kembali"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintStart_toStartOf="parent" />

    <!-- &lt;!-- Tombol Lanjut
    &lt;!-- Tombol Lanjut -->

```

```

<!-- <ImageButton-->
<!-- android:id="@+id/lanjut"-->
<!-- android:layout_width="48dp"-->
-->
<!--
    android:layout_height="48dp"-->
<!--
    android:layout_margin="16dp"-->
<!--
    android:background="@drawable/lanjut_"-->
<!--
    android:contentDescription="Tombol lanjut"-->
<!--
    app:layout_constraintTop_toTopOf="parent"-->
<!--
    app:layout_constraintEnd_toEndOf="parent" />-->

    <!-- Susunan huruf menggunakan
    LinearLayout -->
    <LinearLayout
        android:id="@+id/container_huruf"
        android:layout_width="0dp"

    android:layout_height="wrap_content"
        android:orientation="vertical"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintTop_toBottomOf="@id/kembali"

    android:layout_marginTop="100dp">

    <!-- Baris 1 -->
    <LinearLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content"
        android:orientation="horizontal"

    android:layout_marginBottom="16dp">

```

```

<!-- Huruf lam-->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/lam"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/lam_"

        android:contentDescription="Huruf
        lam" />

        <ImageButton

        android:id="@+id/huruf_lam"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf
        _lam_"

        android:contentDescription="Nama
        huruf lam"

        tools:ignore="TouchTargetSizeCheck"/
        >

    </LinearLayout>

<!-- Huruf kaf -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton

```

```

        android:id="@+id/kaf"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/kaf_"

        android:contentDescription="Huruf kaf"
        />

        <ImageButton

        android:id="@+id/huruf_kaf"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf
        _kaf_"

        android:contentDescription="Nama
        huruf kaf"

        tools:ignore="TouchTargetSizeCheck"/
        >

    </LinearLayout>

<!-- Huruf qaf -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/qof"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:scaleType="fitCenter"

        android:background="@drawable/qof_"

        android:contentDescription="Huruf_qof

```

```

" />

        <ImageButton
            android:id="@+id/huruf_qof"
            android:layout_width="94dp"
            android:layout_height="21dp"
            android:scaleType="fitCenter"
            android:background="@drawable/huruf_qof_"
            android:contentDescription="Nama huruf qof"
            tools:ignore="TouchTargetSizeCheck"/>
        </ImageButton>
    </LinearLayout>

<!-- Baris 2 -->
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginBottom="16dp">

        <!-- Huruf waw -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:orientation="vertical"
            android:gravity="center">

            <ImageButton
                android:id="@+id/waw"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/waw_

```

```

"

            android:contentDescription="Huruf waw" />

            <ImageButton
                android:id="@+id/huruf_waw"
                android:layout_width="94dp"
                android:layout_height="21dp"
                android:background="@drawable/huruf_waw_"
                android:contentDescription="Nama huruf waw"
                tools:ignore="TouchTargetSizeCheck"/>
            </ImageButton>

<!-- Huruf nun -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/nun"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/nun_"

        android:contentDescription="Huruf nun" />

        <ImageButton
            android:id="@+id/huruf_nun"

            android:layout_width="94dp"

```

```

android:layout_height="21dp"

android:background="@drawable/huruf_nun_"

android:contentDescription="Nama huruf nun"

tools:ignore="TouchTargetSizeCheck"/>
</LinearLayout>

<!-- Huruf min -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/mim"

    android:layout_width="96dp"

    android:layout_height="100dp"

    android:scaleType="fitCenter"

    android:background="@drawable/mim_"

    android:contentDescription="Huruf mim" />

    <ImageButton

    android:id="@+id/huruf_mim"

    android:layout_width="94dp"

    android:layout_height="21dp"

    android:scaleType="fitCenter"

    android:background="@drawable/huruf_mim_"

    android:contentDescription="Nama

```

```

huruf mim"

tools:ignore="TouchTargetSizeCheck"/>
</LinearLayout>
</LinearLayout>

<!-- Baris 3 -->
<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content"
    android:orientation="horizontal"

    android:layout_marginBottom="16dp">

    <!-- Huruf hamzah -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/hamzah"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/hamzah_"

        android:contentDescription="Huruf hamzah" />

        <ImageButton

        android:id="@+id/huruf_hamzah"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf_hamzah_"

```

```

android:contentDescription="Nama
huruf hamzah"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf lam alif -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/lamalif"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/lam_a
            lif_"

            android:contentDescription="Huruf
            lam_alif" />

        <ImageButton

            android:id="@+id/huruf_lamalif"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
            _lamalif_"

            android:contentDescription="Nama
            huruf lamalif"

            tools:ignore="TouchTargetSizeCheck"/
            >
        </LinearLayout>

<!-- Huruf ha-->
    <LinearLayout
        android:layout_width="0dp"

```

```

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ha"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/ha_"

            android:contentDescription="Huruf ha"
            />

        <ImageButton

            android:id="@+id/huruf_ha"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
            _ha_"

            android:contentDescription="Nama
            huruf ha"

            tools:ignore="TouchTargetSizeCheck"/
            >
        </LinearLayout>
    </LinearLayout>

<!-- Baris 4 -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:orientation="horizontal"

        android:layout_marginBottom="16dp">

    <!-- Huruf ya -->
        <LinearLayout
            android:layout_width="0dp"

```



```

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

```

```

        <ImageButton
            android:id="@+id/ya"

```

```

        android:layout_width="96dp"

```

```

        android:layout_height="100dp"

```

```

        android:background="@drawable/ya_"

```

```

        android:contentDescription="Huruf ya"
    />

```

```

        <ImageButton

```

```

            android:id="@+id/huruf_ya"

```

```

            android:layout_width="94dp"

```

```

            android:layout_height="21dp"

```

```

            android:background="@drawable/huruf_
            ya_"

```

```

            android:contentDescription="Nama
            huruf ya"

```

```

            tools:ignore="TouchTargetSizeCheck"/
        >

```

```

        </LinearLayout>
    </LinearLayout>

```

```

    </LinearLayout>

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

activity_menyebutkan_huruf.xml

```

<?xml version="1.0" encoding="utf-8"?>

```

```

<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.

```

```

    com/apk/res/android"

```

```

    xmlns:app="http://schemas.android.com
    /apk/res-auto"

```

```

    xmlns:tools="http://schemas.android.co
    m/tools"

```

```

        android:id="@+id/main"
        android:layout_width="match_parent"

```

```

        android:layout_height="match_parent"

```

```

        android:background="@drawable/backg
        round_1"

```

```

            tools:context=".menyebutkan_huruf">

```

```

            <ImageButton
                android:id="@+id/kembali"
                android:layout_width="76dp"
                android:layout_height="75dp"

```

```

            android:layout_marginEnd="336dp"

```

```

            android:background="@drawable/kemb
            ali_"

```

```

            android:contentDescription="Tombol
            untuk memulai fitur kembali"

```

```

            app:layout_constraintEnd_toEndOf="pa
            rent"

```

```

                tools:ignore="MissingConstraints"

```

```

            tools:layout_editor_absoluteY="30dp"
        />

```

```

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="273dp"
            android:layout_height="451dp"

```

```

        app:layout_constraintBottom_toBottom
        Of="parent"

```

```

        app:layout_constraintEnd_toEndOf="pa
        rent"

```

```

        app:layout_constraintHorizontal_bias="
        0.326"

```

```

        app:layout_constraintStart_toStartOf="p
        arent"

```

```

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="0.359"
    app:srcCompat="@drawable/oke"
/>
<ImageButton
    android:id="@+id/mulai"
    android:layout_width="261dp"
    android:layout_height="125dp"

    android:layout_marginBottom="260dp"

    android:background="@drawable/mulai_"

    android:contentDescription="Tombol
    untuk mulai aplikasi"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"
    tools:ignore="MissingConstraints"
/>

</androidx.constraintlayout.widget.ConstraintLayout>

```

activity_menyebutkan_huruf1.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"

```

```

    android:layout_height="match_parent"

    android:background="@drawable/backgroud_2"

    tools:context=".menyebutkan_huruf_1">

    <TextView
        android:id="@+id/tv_result"
        android:layout_width="366dp"
        android:layout_height="75dp"
        android:gravity="center"
        android:text="Silakan sebutkan
        huruf sebanyak 2 kali"
        android:textColor="#000000"
        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.488"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.125" />

```

<!-- Tombol Kembali -->

```

    <ImageButton
        android:id="@+id/kembali"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

        android:background="@drawable/kembali_"

        android:contentDescription="Tombol
        kembali"

        app:layout_constraintStart_toStartOf="p

```

```

arent"

app:layout_constraintTop_toTopOf="parent" />

<!-- Tombol Lanjut -->
<ImageButton
    android:id="@+id/lanjut"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:layout_margin="16dp"

    android:background="@drawable/lanjut_"

    android:contentDescription="Tombol
    lanjut"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintTop_toTopOf="parent" />

<!-- Susunan huruf menggunakan
    LinearLayout -->
    <LinearLayout
        android:id="@+id/container_huruf"
        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_marginTop="100dp"
        android:orientation="vertical"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@id/kembali">
    <!-- Baris 1 -->
        <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

```

```

    android:layout_marginBottom="16dp"

    android:orientation="horizontal">
    <!-- Huruf ta -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

            android:orientation="vertical">
                <ImageButton
                    android:id="@+id/ta"

                    android:layout_width="96dp"

                    android:layout_height="100dp"

                    android:background="@drawable/ta_"

                    android:contentDescription="Huruf Ta"
                />
                <ImageButton
                    android:id="@+id/huruf_ta"

                    android:layout_width="94dp"

                    android:layout_height="21dp"

                    android:background="@drawable/huruf_
                    ta_"

                    android:contentDescription="Nama
                    huruf Ta"

                    tools:ignore="TouchTargetSizeCheck"
                />
            </LinearLayout>

    <!-- Huruf Ba -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

            android:orientation="vertical">

```

```

        <ImageButton
            android:id="@+id/ba"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/ba_"

android:contentDescription="Huruf Ba"
/>

        <ImageButton

android:id="@+id/huruf_ba"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf_ba_"

android:contentDescription="Nama
huruf Ba"

tools:ignore="TouchTargetSizeCheck"
/>

        </LinearLayout>

<!-- Huruf Alif -->
        <LinearLayout
            android:layout_width="0dp"

android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

android:orientation="vertical">

            <ImageButton
                android:id="@+id/alif"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/alif_"

android:contentDescription="Huruf Alif

```

```

"

android:scaleType="fitCenter" />

        <ImageButton

android:id="@+id/huruf_alif"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf_alif_"

android:contentDescription="Nama
huruf Alif"

android:scaleType="fitCenter"

tools:ignore="TouchTargetSizeCheck"
/>

        </LinearLayout>
    </LinearLayout>

<!-- Baris 2 -->
        <LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_marginBottom="16dp"

android:orientation="horizontal">

        <!-- Huruf ha -->
            <LinearLayout
                android:layout_width="0dp"

android:layout_height="wrap_content"
                android:layout_weight="1"
                android:gravity="center"

android:orientation="vertical">

                <ImageButton
                    android:id="@+id/haa"

android:layout_width="96dp"

```

```

android:layout_height="100dp"

android:background="@drawable/haa_"

android:contentDescription="Huruf
Haa" />

        <ImageButton

android:id="@+id/huruf_haa"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_haa_"

android:contentDescription="Nama
huruf Haa"

tools:ignore="TouchTargetSizeCheck"
/>

        </LinearLayout>

<!-- Huruf jim -->
        <LinearLayout
            android:layout_width="0dp"

android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

android:orientation="vertical">

            <ImageButton
                android:id="@+id/jim"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/jim_"

android:contentDescription="Huruf Jim"
/>

            <ImageButton

android:id="@+id/huruf_jim"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_jim_"

android:contentDescription="Nama
huruf jim"

tools:ignore="TouchTargetSizeCheck"
/>

        </LinearLayout>

<!-- Huruf tsa -->
        <LinearLayout
            android:layout_width="0dp"

android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

android:orientation="vertical">

            <ImageButton
                android:id="@+id/tsa"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/tsa_"

android:contentDescription="Huruf_tsa"

android:scaleType="fitCenter" />

            <ImageButton

android:id="@+id/huruf_tsa"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_tsa_"

```

```

android:contentDescription="Nama
huruf Tsa"

android:scaleType="fitCenter"

tools:ignore="TouchTargetSizeCheck"
/>
    </LinearLayout>
</LinearLayout>

<!-- Baris 3 -->
    <LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_marginBottom="16dp"

android:orientation="horizontal">

<!-- Huruf dzal -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:gravity="center"

android:orientation="vertical">

        <ImageButton
            android:id="@+id/dzal"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/dzal_
"

android:contentDescription="Huruf
dzal" />

        <ImageButton

android:id="@+id/huruf_dzal"

android:layout_width="94dp"

```

```

android:layout_height="21dp"

android:background="@drawable/huruf
_dzal_"

android:contentDescription="Nama
huruf dzal"

tools:ignore="TouchTargetSizeCheck"
/>
    </LinearLayout>

<!-- Huruf dal -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:gravity="center"

android:orientation="vertical">

        <ImageButton
            android:id="@+id/dal"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/dal_"

android:contentDescription="Huruf Dal"
/>

        <ImageButton

android:id="@+id/huruf_dal"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_dal_"

android:contentDescription="Nama
huruf dal"

tools:ignore="TouchTargetSizeCheck"
/>

```

```

        </LinearLayout>

<!-- Huruf kho -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:gravity="center"

        android:orientation="vertical">

        <ImageButton
            android:id="@+id/kho"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/kho_"

            android:contentDescription="Huruf
Kho" />

        <ImageButton

            android:id="@+id/huruf_kho"

            android:layout_width="94dp"

            android:layout_height="21dp"

            android:background="@drawable/huruf
_kho_"

            android:contentDescription="Nama
huruf Kho"

            tools:ignore="TouchTargetSizeCheck"
        />
    </LinearLayout>
</LinearLayout>

<!-- Baris 4 -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

```

```

        android:layout_marginBottom="16dp"

        android:orientation="horizontal">

    <!-- Huruf ro -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"

            android:orientation="vertical">

            <ImageButton
                android:id="@+id/ro"

                android:layout_width="96dp"

                android:layout_height="100dp"

                android:background="@drawable/ro_"

                android:contentDescription="Huruf ro"
            />

            <ImageButton

                android:id="@+id/huruf_ro"

                android:layout_width="94dp"

                android:layout_height="21dp"

                android:background="@drawable/huruf
_ro_"

                android:contentDescription="Nama
huruf ro"

                tools:ignore="TouchTargetSizeCheck"
            />
        </LinearLayout>
    </LinearLayout>

    <TextView
        android:id="@+id/hasil_ucapan"
        android:layout_width="400dp"

```

```

        android:layout_height="50dp"

        android:layout_marginTop="720dp"
        android:fontFamily="sans-serif-
        black"
        android:gravity="center"
        android:text="Hasil ucapan akan
        muncul di sini"
        android:textColor="#000000"
        android:textSize="18sp"

        app:layout_constraintEnd_toEndOf="pa
        rent"

        app:layout_constraintStart_toStartOf="p
        arent"

        app:layout_constraintTop_toTopOf="pa
        rent" />

</androidx.constraintlayout.widget.Cons
        traintLayout>

```

activity_menyebutkan_huruf2.xml

```

<?xml version="1.0" encoding="utf-
        8"?>
<androidx.constraintlayout.widget.Const
        raintLayout
        xmlns:android="http://schemas.android.
        com/apk/res/android"

        xmlns:app="http://schemas.android.com
        /apk/res-auto"

        xmlns:tools="http://schemas.android.co
        m/tools"
        android:layout_width="match_parent"

        android:layout_height="match_parent"

        android:background="@drawable/backg
        round_2"

        tools:context=".menyebutkan_huruf_2">

        <TextView
        android:id="@+id/tv_result"
        android:layout_width="366dp"

```

```

        android:layout_height="75dp"
        android:gravity="center"
        android:text="Silakan sebutkan
        huruf sebanyak 2 kali"
        android:textColor="#000000"
        android:textSize="24sp"

        app:layout_constraintBottom_toBottom
        Of="parent"

        app:layout_constraintEnd_toEndOf="pa
        rent"

        app:layout_constraintHorizontal_bias="
        0.488"

        app:layout_constraintStart_toStartOf="p
        arent"

        app:layout_constraintTop_toTopOf="pa
        rent"

        app:layout_constraintVertical_bias="0.1
        25" />

```

<!-- Tombol Kembali -->

```

        <ImageButton
        android:id="@+id/kembali"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

        android:background="@drawable/kemb
        ali_"

        android:contentDescription="Tombol
        kembali"

        app:layout_constraintTop_toTopOf="pa
        rent"

        app:layout_constraintStart_toStartOf="p
        arent" />

```

<!-- Tombol Lanjut -->

```

        <ImageButton
        android:id="@+id/lanjut"
        android:layout_width="48dp"
        android:layout_height="48dp"
        android:layout_margin="16dp"

```



```

android:background="@drawable/lanjut
_"

android:contentDescription="Tombol
lanjut"

app:layout_constraintTop_toTopOf="pa
rent"

app:layout_constraintEnd_toEndOf="pa
rent" />

<!-- Susunan huruf menggunakan
LinearLayout -->
<LinearLayout
    android:id="@+id/container_huruf"
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:orientation="vertical"

    app:layout_constraintStart_toStartOf="p
arent"

    app:layout_constraintEnd_toEndOf="pa
rent"

    app:layout_constraintTop_toBottomOf=
"@id/kembali"

    android:layout_marginTop="100dp">

<!-- Baris 1 -->
<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content"
    android:orientation="horizontal"

    android:layout_marginBottom="16dp">

<!-- Huruf syin -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"

    android:gravity="center">

    <ImageButton
        android:id="@+id/syin"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/syin_
"

        android:contentDescription="Huruf
syin" />

    <ImageButton

        android:id="@+id/huruf_syin"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf
_syin_"

        android:contentDescription="Nama
huruf syin"

        tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf sin -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/sin"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:background="@drawable/sin_"

```

```
android:contentDescription="Huruf sin"
/>
```

```
    <ImageButton
```

```
        android:id="@+id/huruf_sin"
```

```
        android:layout_width="94dp"
```

```
        android:layout_height="21dp"
```

```
        android:background="@drawable/huruf_
        _sin_"
```

```
        android:contentDescription="Nama
        huruf sin"
```

```
        tools:ignore="TouchTargetSizeCheck"/
        >
```

```
    </LinearLayout>
```

```
<!-- Huruf zay -->
```

```
    <LinearLayout
```

```
        android:layout_width="0dp"
```

```
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">
```

```
        <ImageButton
```

```
            android:id="@+id/zay"
```

```
            android:layout_width="96dp"
```

```
            android:layout_height="100dp"
```

```
            android:scaleType="fitCenter"
```

```
            android:background="@drawable/zay_"
```

```
            android:contentDescription="Huruf_zay
            " />
```

```
        <ImageButton
```

```
            android:id="@+id/huruf_zay"
```

```
            android:layout_width="94dp"
```

```
            android:layout_height="21dp"
```

```
            android:scaleType="fitCenter"
```

```
            android:background="@drawable/huruf
            _zay_"
```

```
            android:contentDescription="Nama
            huruf zay"
```

```
            tools:ignore="TouchTargetSizeCheck"/
            >
```

```
        </LinearLayout>
```

```
    </LinearLayout>
```

```
<!-- Baris 2 -->
```

```
    <LinearLayout
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
        android:orientation="horizontal"
```

```
        android:layout_marginBottom="16dp">
```

```
<!-- Huruf tho -->
```

```
    <LinearLayout
```

```
        android:layout_width="0dp"
```

```
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">
```

```
        <ImageButton
```

```
            android:id="@+id/tho"
```

```
            android:layout_width="96dp"
```

```
            android:layout_height="100dp"
```

```
            android:background="@drawable/tho_"
```

```
            android:contentDescription="Huruf tho"
            />
```

```
        <ImageButton
```

```
            android:id="@+id/huruf_tho"
```

```

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_tho_"

android:contentDescription="Nama
huruf Tho"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf dhod -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/dhod"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/dhod_
"

android:contentDescription="Huruf
dhod" />

        <ImageButton

android:id="@+id/huruf_dhod"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_dhod_"

android:contentDescription="Nama
huruf dhod"

```

```

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf shod -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/shod"

android:layout_width="96dp"

android:layout_height="100dp"

android:scaleType="fitCenter"

android:background="@drawable/shod_
"

android:contentDescription="Huruf_sho
d" />

        <ImageButton

android:id="@+id/huruf_shod"

android:layout_width="94dp"

android:layout_height="21dp"

android:scaleType="fitCenter"

android:background="@drawable/huruf
_shod_"

android:contentDescription="Nama
huruf shod"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>
</LinearLayout>

```

```

<!-- Baris 3 -->
    <LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"
    android:orientation="horizontal"

android:layout_marginBottom="16dp">

<!-- Huruf ghoin -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ghoin"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/ghoin_
_"

android:contentDescription="Huruf
ghoin" />

        <ImageButton

android:id="@+id/huruf_ghoin"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_ghoin_"

android:contentDescription="Nama
huruf ghoin"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

```

```

<!-- Huruf ain -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/ain"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/ain_"

android:contentDescription="Huruf ain"
/>

        <ImageButton

android:id="@+id/huruf_ain"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_ain_"

android:contentDescription="Nama
huruf ain"

tools:ignore="TouchTargetSizeCheck"/
>
    </LinearLayout>

<!-- Huruf dzho -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/dzho"

```

<pre> android:layout_width="96dp" android:layout_height="100dp" android:background="@drawable/dzho_" android:contentDescription="Huruf dzho" /> <ImageButton android:id="@+id/huruf_dzho" android:layout_width="94dp" android:layout_height="21dp" android:background="@drawable/huruf _dzho_" android:contentDescription="Nama huruf dzho" tools:ignore="TouchTargetSizeCheck"/ > </LinearLayout> </LinearLayout> <!-- Baris 4 --> <LinearLayout android:layout_width="match_parent" android:layout_height="wrap_content" android:orientation="horizontal" android:layout_marginBottom="16dp"> <!-- Huruf fa --> <LinearLayout android:layout_width="0dp" android:layout_height="wrap_content" android:layout_weight="1" android:orientation="vertical" android:gravity="center"> <ImageButton </pre>	<pre> android:id="@+id/fa" android:layout_width="96dp" android:layout_height="100dp" android:background="@drawable/fa_" android:contentDescription="Huruf fa" /> <ImageButton android:id="@+id/huruf_fa" android:layout_width="94dp" android:layout_height="21dp" android:background="@drawable/huruf _fa_" android:contentDescription="Nama huruf fa" tools:ignore="TouchTargetSizeCheck"/ > </LinearLayout> </LinearLayout> </LinearLayout> <TextView android:id="@+id/hasil_ucapan" android:layout_width="400dp" android:layout_height="50dp" android:layout_marginTop="720dp" android:fontFamily="sans-serif- black" android:gravity="center" android:text="Hasil ucapan akan muncul di sini" android:textColor="#000000" android:textSize="18sp" app:layout_constraintEnd_toEndOf="pa rent" app:layout_constraintStart_toStartOf="p arent" </pre>
---	---

```
app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_menyebutkan_huruf3.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout  
xmlns:android="http://schemas.android.com/apk/res/android"
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:background="@drawable/background_2"
```

```
    tools:context=".menyebutkan_huruf_3">
```

```
        <TextView  
            android:id="@+id/tv_result"  
            android:layout_width="366dp"  
            android:layout_height="75dp"  
            android:gravity="center"  
            android:text="Silakan sebutkan  
huruf sebanyak 2 kali"  
            android:textColor="#000000"  
            android:textSize="24sp"
```

```
        app:layout_constraintBottom_toBottomOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintHorizontal_bias="0.488"
```

```
        app:layout_constraintStart_toStartOf="parent"
```

```
        parent"
```

```
        app:layout_constraintTop_toTopOf="parent"
```

```
        app:layout_constraintVertical_bias="0.125" />
```

```
        <!-- Tombol Kembali -->
```

```
        <ImageButton  
            android:id="@+id/kembali"  
            android:layout_width="48dp"  
            android:layout_height="48dp"  
            android:layout_margin="16dp"
```

```
            android:background="@drawable/kembali_"
```

```
            android:contentDescription="Tombol kembali"
```

```
        app:layout_constraintTop_toTopOf="parent"
```

```
        app:layout_constraintStart_toStartOf="parent" />
```

```
        <!-- Susunan huruf menggunakan  
LinearLayout -->
```

```
        <LinearLayout  
            android:id="@+id/container_huruf"  
            android:layout_width="0dp"
```

```
            android:layout_height="wrap_content"  
            android:orientation="vertical"
```

```
        app:layout_constraintStart_toStartOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintTop_toBottomOf="@+id/kembali"
```

```
        android:layout_marginTop="100dp">
```

```
        <!-- Baris 1 -->
```

```
        <LinearLayout
```

```

android:layout_width="match_parent"

android:layout_height="wrap_content"
    android:orientation="horizontal"

android:layout_marginBottom="16dp">

<!-- Huruf lam-->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

        <ImageButton
            android:id="@+id/lam"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/lam_"

android:contentDescription="Huruf
lam" />

        <ImageButton

android:id="@+id/huruf_lam"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_lam_"

android:contentDescription="Nama
huruf lam"

tools:ignore="TouchTargetSizeCheck"/
>
        </LinearLayout>

<!-- Huruf kaf -->
    <LinearLayout
        android:layout_width="0dp"

```

```

android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

        <ImageButton
            android:id="@+id/kaf"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/kaf_"

android:contentDescription="Huruf kaf"
/>

        <ImageButton

android:id="@+id/huruf_kaf"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_kaf_"

android:contentDescription="Nama
huruf kaf"

tools:ignore="TouchTargetSizeCheck"/
>
        </LinearLayout>

<!-- Huruf qaf -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

        <ImageButton
            android:id="@+id/qof"

android:layout_width="96dp"

android:layout_height="100dp"

```

```

android:scaleType="fitCenter"

android:background="@drawable/qof_"

android:contentDescription="Huruf_qof
" />

```

```

        <ImageButton
android:id="@+id/huruf_qof"

android:layout_width="94dp"

android:layout_height="21dp"

android:scaleType="fitCenter"

android:background="@drawable/huruf
_qof_"

android:contentDescription="Nama
huruf qof"

tools:ignore="TouchTargetSizeCheck"/
>
        </LinearLayout>
    </LinearLayout>

```

```

<!-- Baris 2 -->
    <LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"
    android:orientation="horizontal"

android:layout_marginBottom="16dp">

```

```

<!-- Huruf waw -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/waw"

```

```

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/waw_
"

```

```

android:contentDescription="Huruf
waw" />

```

```

        <ImageButton
android:id="@+id/huruf_waw"

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf
_waw_"

android:contentDescription="Nama
huruf waw"

tools:ignore="TouchTargetSizeCheck"/
>
        </LinearLayout>

```

```

<!-- Huruf nun -->
    <LinearLayout
        android:layout_width="0dp"

android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

```

```

        <ImageButton
            android:id="@+id/nun"

android:layout_width="96dp"

android:layout_height="100dp"

android:background="@drawable/nun_"

android:contentDescription="Huruf
nun" />

```



```

        <ImageButton
            android:id="@+id/huruf_nun"
            android:layout_width="94dp"
            android:layout_height="21dp"

            android:background="@drawable/huruf_nun_"

            android:contentDescription="Nama huruf nun"

            tools:ignore="TouchTargetSizeCheck"/>
        </ImageButton>

<!-- Huruf min -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/mim"

        android:layout_width="96dp"

        android:layout_height="100dp"

        android:scaleType="fitCenter"

        android:background="@drawable/mim_"

        android:contentDescription="Huruf mim" />

    <ImageButton
        android:id="@+id/huruf_mim"

        android:layout_width="94dp"

        android:layout_height="21dp"

```

```

        android:scaleType="fitCenter"

        android:background="@drawable/huruf_mim_"

        android:contentDescription="Nama huruf mim"

        tools:ignore="TouchTargetSizeCheck"/>
    </LinearLayout>
</LinearLayout>

<!-- Baris 3 -->
<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content"
    android:orientation="horizontal"

    android:layout_marginBottom="16dp">

    <!-- Huruf hamzah -->
    <LinearLayout
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:gravity="center">

        <ImageButton
            android:id="@+id/hamzah"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/hamzah_"

            android:contentDescription="Huruf hamzah" />

        <ImageButton

            android:id="@+id/huruf_hamzah"

```

```

android:layout_width="94dp"

android:layout_height="21dp"

android:background="@drawable/huruf_hamzah_"

android:contentDescription="Nama huruf hamzah"

tools:ignore="TouchTargetSizeCheck"/
>
</LinearLayout>

<!-- Huruf lam alif -->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/lamalif"

    android:layout_width="96dp"

    android:layout_height="100dp"

    android:background="@drawable/lam_alif_"

    android:contentDescription="Huruf lam alif" />

    <ImageButton

    android:id="@+id/huruf_lamalif"

    android:layout_width="94dp"

    android:layout_height="21dp"

    android:background="@drawable/huruf_lamalif_"

    android:contentDescription="Nama huruf lamalif"

```

```

tools:ignore="TouchTargetSizeCheck"/
>
</LinearLayout>

<!-- Huruf ha-->
<LinearLayout
    android:layout_width="0dp"

    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical"
    android:gravity="center">

    <ImageButton
        android:id="@+id/ha"

    android:layout_width="96dp"

    android:layout_height="100dp"

    android:background="@drawable/ha_"

    android:contentDescription="Huruf ha"
/>

    <ImageButton

    android:id="@+id/huruf_ha"

    android:layout_width="94dp"

    android:layout_height="21dp"

    android:background="@drawable/huruf_ha_"

    android:contentDescription="Nama huruf ha"

    tools:ignore="TouchTargetSizeCheck"/
>
</LinearLayout>
</LinearLayout>

<!-- Baris 4 -->
<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

```

```

        android:orientation="horizontal"
    android:layout_marginBottom="16dp">
    <!-- Huruf ya -->
        <LinearLayout
            android:layout_width="0dp"

            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:orientation="vertical"
            android:gravity="center">

            <ImageButton
                android:id="@+id/ya"

            android:layout_width="96dp"

            android:layout_height="100dp"

            android:background="@drawable/ya_"

            android:contentDescription="Huruf ya"
        />

```

```

        <ImageButton

        android:id="@+id/huruf_ya"

        android:layout_width="94dp"

        android:layout_height="21dp"

        android:background="@drawable/huruf_ya_"

        android:contentDescription="Nama huruf ya"

        tools:ignore="TouchTargetSizeCheck"/
    >
    </LinearLayout>
</LinearLayout>

```

```

</LinearLayout>
<TextView
    android:id="@+id/hasil_ucapan"
    android:layout_width="400dp"
    android:layout_height="50dp"

```

```

    android:layout_marginTop="720dp"
    android:fontFamily="sans-serif-black"
    android:gravity="center"
    android:text="Hasil ucapan akan muncul di sini"
    android:textColor="#000000"
    android:textSize="18sp"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```