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LAMPIRAN-1 Program arduino

```
#include <Wire.h> // Library komunikasi I2C untuk LCD

#include <LiquidCrystal_I2C.h> // Library LCD

LiquidCrystal_I2C lcd(0x27, 20, 4); // Set the LCD address to 0x27 for a 20 chars and 4 line
display

#define adcPin A0 // Pin input sensor turbidity/kekeruhan

#define buzzer A3 // Pin A3 sebagai pin untuk buzzer

#define pompaAir 5 // Pin 5 untuk pompa air

#define waterLev 4 // Pin sensor water level

#define MotorNaik 3 // Pin untuk motor naik

#define MotorTurun 2 // Pin untuk motor turun

#define sensorTegangan A1 // Pin untuk sensor tegangan (pin A1)

bool dataAir; // Variabel untuk menyimpan data air

int ADCtrb; // Variabel untuk menyimpan data ADC dari sensor

int kekeruhan; // Variabel untuk menyimpan data kekeruhan

float tegangan; // Variabel untuk menyimpan nilai tegangan

unsigned long waktu = 0;

unsigned long waktuKirim = 0; // Timer untuk mengirim data

void setup() {

    serialToESP.begin(9600); // Mengaktifkan serial komunikasi ke ESP

    Serial.begin(9600); // Mengaktifkan serial monitor

    pinMode(adcPin, INPUT); // Mengatur adcPin sebagai input

    pinMode(waterLev, INPUT_PULLUP); // Mengatur sensor water level sebagai input

    pinMode(MotorNaik, OUTPUT);

    pinMode(MotorTurun, OUTPUT);
```

```

pinMode(pompaAir, OUTPUT);

pinMode(buzzer, OUTPUT);

pinMode(sensorTegangan, INPUT); // Mengatur sensorTegangan sebagai input


digitalWrite(MotorNaik, HIGH); // Mematikan putaran motor

digitalWrite(MotorTurun, HIGH);

digitalWrite(pompaAir, HIGH);


lcd.init();           // Inisialisasi LCD

lcd.backlight();

lcd.setCursor(0, 0);

lcd.print("PEMBASMI HAMA BAWANG"); // Menampilkan judul pada LCD

lcd.setCursor(0,1);

lcd.print("LAMPU = ");

lcd.setCursor(0, 2);

lcd.print("KEKERUHAN = ");

lcd.setCursor(0, 3);

lcd.print("WATER LEVEL = ");

lcd.setCursor(0, 4); // Baris 4

alarm();

}


void loop() {

  if (digitalRead(waterLev) == 0) {

    dataAir = 0;

    lcd.setCursor(14, 3);

    lcd.print("KOSONG");

  } else {

```

```

dataAir = 1;

lcd.setCursor(14, 3);

lcd.print("PENUH ");

}

```

```

ADCTrb = analogRead(adcPin);    // Membaca data ADC dari sensor turbidity

kekeruhan = map(ADCTrb, 635, 0, 0, 100); // Mengonversi data ADC menjadi persentase
kekeruhan

lcd.setCursor(14, 2);

lcd.print(kekeruhan);

lcd.setCursor(17, 2);

lcd.print("NTU");

```

```

// Membaca dan menghitung tegangan

int nilaiTegangan = analogRead(sensorTegangan); // Membaca nilai dari sensor tegangan

tegangan = (nilaiTegangan / 1023.0) * 5.0; // Menghitung tegangan (asumsi Vcc = 5V)

```

```

// Menampilkan status la mpu berdasarkan tegangan

if (tegangan < 2.77 ) { // Mengonversi tegangan

    lcd.setCursor(7, 1);

    lcd.print("PADAM "); // Lampu padam

} else {

    lcd.setCursor(7, 1);

    lcd.print("NYALA "); // Lampu menyala

    delay(1000);

}

```

```

if (kekeruhan >= 70) {

```

```

    alarm();

    serialToESP.print("#" + String(kekeruhan) + "#" + String(dataAir) + "#" + "$"); // Jika
kekeruhan lebih dari 70 maka data dikirim ke web

    tuangAir();

    isiAir();

    delay(3000);
}

waktu = millis();

if ((waktu - waktuKirim) >= 3000) {

    serialToESP.print("#" + String(kekeruhan) + "#" + String(dataAir) + "#" + "$"); // Setiap 3
detik, data terkirim ke web

    waktuKirim = waktu;

}

}

void tuangAir() {

    digitalWrite(MotorNaik, LOW);

    delay(10 * 1000);

    digitalWrite(MotorNaik, HIGH);

    delay(3000);

    digitalWrite(MotorTurun, LOW);

    delay(10 * 1000);

    digitalWrite(MotorTurun, HIGH);

    delay(1000); // Perintah untuk menuang air

}

void isiAir() {

```

```

while (digitalRead(waterLev) == 0) {

    digitalWrite(pompaAir, LOW); // Perintah mengisi air

}

digitalWrite(pompaAir, HIGH);

}

```

```

void alarm() {

    for (int x = 0; x < 2; x++) {

        digitalWrite(buzzer, HIGH);

        delay(50);

        digitalWrite(buzzer, LOW);

        delay(50);

    } // Menyalakan buzzer

}

```

LAMPIRAN-2 Program Web

```

<!doctype html>

<html class="no-js" lang="">

<head>

<meta charset="utf-8">

<meta http-equiv="x-ua-compatible"
content="ie=edge">

<title>Dashboard One | montaba</title>

<meta name="description" content="">

<metaname="viewport"
content="width=device-width, initial-
scale=1">

```

```

<meta property="og:image"
content="https://montaba.monlab.my.i
d/images/sort_desc.png">

<!-- favicon

=====
===== -->

<link rel="shortcut icon" type="image/x-
icon" href="img/favicon.ico">

<!-- Google Fonts

=====
===== -->

<link
href="https://fonts.googleapis.com/css

```

```
?family=Roboto:100,300,400,700,900"
rel="stylesheet">
```

```
<!-- Bootstrap CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/bootstrap.min.css">
```

```
<!-- Bootstrap CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet" href="css/font-
awesome.min.css">
```

```
<!-- owl.carousel CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/owl.carousel.css">
```

```
<link rel="stylesheet"
href="css/owl.theme.css">
```

```
<link rel="stylesheet"
href="css/owl.transitions.css">
```

```
<!-- meanmenu CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/meanmenu/meanmenu.min.c
ss">
```

```
<!-- animate CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/animate.css">
```

```
<!-- normalize CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/normalize.css">
```

```
<!-- mCustomScrollbar CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/scrollbar/jquery.mCustomScr
ollbar.min.css">
```

```
<!-- jvectormap CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/jvectormap/jquery-
jvectormap-2.0.3.css">
```

```
<!-- notika icon CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet" href="css/notika-
custom-icon.css">
```

```
<!-- wave CSS
```

```
=====
===== -->
```

```
<link rel="stylesheet"
href="css/wave/waves.min.css">
```

```
<!-- main CSS
```

```

=====
===== -->

<link                rel="stylesheet"
href="css/main.css">

<!-- style CSS

=====
===== -->

<link rel="stylesheet" href="style.css">

<!-- responsive CSS

=====
===== -->

<link                rel="stylesheet"
href="css/responsive.css">

<!-- modernizr JS

=====
===== -->

<script      src="js/vendor/modernizr-
2.8.3.min.js"></script>

</head>

<body>

<!--[if lt IE 8]>

<p class="browserupgrade">You are
using an <strong>outdated</strong>
browser.      Please      <a
href="http://browsehappy.com/">upgr
ade your browser</a> to improve your
experience.</p>

<![endif]-->

<!-- Start Header Top Area -->

```

```

<div class="header-top-area">

<div class="container">

<div class="row">

<div class="col-lg-12 col-md-12 col-sm-
12 col-xs-12">

<div class="logo-area">

<a
href="https://montaba.monlab.my.id/
"></a>

</div>

</div>

<!-- <div class="col-lg-8 col-md-8 col-
sm-12 col-xs-12">

<div class="header-top-menu">

<ul class="nav navbar-nav notika-top-
nav">

<li class="nav-item dropdown">

<a href="#" data-toggle="dropdown"
role="button" aria-expanded="false"
class="nav-link      dropdown-
toggle"><span><i class="notika-icon
notika-search"></i></span></a>

<div role="menu" class="dropdown-
menu search-dd animated flipInX">

<div class="search-input">

<i class="notika-icon notika-left-
arrow"></i>

<input type="text" />

</div>

```



```

</div>

</li>

<li class="nav-item dropdown">

  <a href="#" data-toggle="dropdown"
  role="button" aria-expanded="false"
  class="nav-link dropdown-
  toggle"><span><i class="notika-icon
  notika-mail"></i></span></a>

  <div role="menu" class="dropdown-
  menu message-dd animated zoomIn">

    <div class="hd-mg-tt">

      <h2>Messages</h2>

    </div>

    <div class="hd-message-info">

      <a href="#">

        <div class="hd-message-sn">

          <div class="hd-message-img">

          </div>

          <div class="hd-mg-ctn">

            <h3>David Belle</h3>

            <p>Cum sociis natoque penatibus et
            magnis dis parturient montes</p>

          </div>

        </div>

      </a>

      <a href="#">

        <div class="hd-message-sn">

```

```

<div class="hd-message-img">

</div>

<div class="hd-mg-ctn">

  <h3>Jonathan Morris</h3>

  <p>Cum sociis natoque penatibus et
  magnis dis parturient montes</p>

</div>

</div>

<a href="#">

  <div class="hd-message-sn">

    <div class="hd-message-img">

    </div>

    <div class="hd-mg-ctn">

      <h3>Fredric Mitchell</h3>

      <p>Cum sociis natoque penatibus et
      magnis dis parturient montes</p>

    </div>

  </div>

  <a href="#">

    <div class="hd-message-sn">

      <div class="hd-message-img">

```

```

</div>

<div class="hd-mg-ctn">

<h3>David Belle</h3>

<p>Cum sociis natoque penatibus et
magnis dis parturient montes</p>

</div>

</div>

</a>

<a href="#">

<div class="hd-message-sn">

<div class="hd-message-img">



</div>

<div class="hd-mg-ctn">

<h3>Glenn Jacobs</h3>

<p>Cum sociis natoque penatibus et
magnis dis parturient montes</p>

</div>

</div>

</a>

</div>

<div class="hd-mg-va">

<a href="#">View All</a>

</div>

</div>

</li>

<li class="nav-item nc-al"><a href="#"
data-toggle="dropdown" role="button"
aria-expanded="false" class="nav-link
dropdown-toggle"><span><i
class="notika-icon notika-
alarm"></i></span><div
class="spinner4 spinner-4"></div><div
class="ntd-
ctn"><span>3</span></div></a>

<div role="menu" class="dropdown-
menu message-dd notification-dd
animated zoomIn">

<div class="hd-mg-tt">

<h2>Notification</h2>

</div>

<div class="hd-message-info">

<a href="#">

<div class="hd-message-sn">

<div class="hd-message-img">



</div>

<div class="hd-mg-ctn">

<h3>David Belle</h3>

<p>Cum sociis natoque penatibus et
magnis dis parturient montes</p>

</div>

</div>

</a>

<a href="#">

<div class="hd-message-sn">

```

<div class="hd-message-img">	</div>
	<div class="hd-mg-ctn">
</div>	David Belle
<div class="hd-mg-ctn">	Cum sociis natoque penatibus et magnis dis parturient montes
Jonathan Morris	</div>
Cum sociis natoque penatibus et magnis dis parturient montes	</div>
</div>	
</div>	
	<div class="hd-message-sn">
	<div class="hd-message-img">
<div class="hd-message-sn">	
<div class="hd-message-img">	</div>
	<div class="hd-mg-ctn">
</div>	Glenn Jacobs
<div class="hd-mg-ctn">	Cum sociis natoque penatibus et magnis dis parturient montes
Fredric Mitchell	</div>
Cum sociis natoque penatibus et magnis dis parturient montes	</div>
</div>	
</div>	</div>
	<div class="hd-mg-va">
	View All
<div class="hd-message-sn">	</div>
<div class="hd-message-img">	</div>

```
<li class="nav-item"><a href="#" data-
toggle="dropdown" role="button" aria-
expanded="false" class="nav-link
dropdown-toggle"><span><i
class="notika-icon notika-
menus"></i></span><div
class="spinner4 spinner-4"></div><div
class="ntd-
ctn"><span>2</span></div></a>
```

```
<div role="menu" class="dropdown-
menu message-dd task-dd animated
zoomIn">
```

```
<div class="hd-mg-tt">
```

```
<h2>Tasks</h2>
```

```
</div>
```

```
<div class="hd-message-info hd-task-
info">
```

```
<div class="skill">
```

```
<div class="progress">
```

```
<div class="lead-content">
```

```
<p>HTML5 Validation Report</p>
```

```
</div>
```

```
<div class="progress-bar wow
fadeInLeft" data-progress="95%"
style="width: 95%;" data-wow-
duration="1.5s" data-wow-
delay="1.2s"><span>95%</span>
```

```
</div>
```

```
</div>
```

```
<div class="progress">
```

```
<div class="lead-content">
```

```
<p>Google Chrome Extension</p>
```

```
</div>
```

```
<div class="progress-bar wow
fadeInLeft" data-progress="85%"
style="width: 85%;" data-wow-
duration="1.5s" data-wow-
delay="1.2s"><span>85%</span> </div>
```

```
</div>
```

```
<div class="progress">
```

```
<div class="lead-content">
```

```
<p>Social Internet Projects</p>
```

```
</div>
```

```
<div class="progress-bar wow
fadeInLeft" data-progress="75%"
style="width: 75%;" data-wow-
duration="1.5s" data-wow-
delay="1.2s"><span>75%</span> </div>
```

```
</div>
```

```
<div class="progress">
```

```
<div class="lead-content">
```

```
<p>Bootstrap Admin</p>
```

```
</div>
```

```
<div class="progress-bar wow
fadeInLeft" data-progress="93%"
style="width: 65%;" data-wow-
duration="1.5s" data-wow-
delay="1.2s"><span>65%</span> </div>
```

```
</div>
```

```
<div class="progress progress-bt">
```

```
<div class="lead-content">
```

<p>Youtube App</p>

</div>

<div class="progress-bar wow
fadeInLeft" data-progress="55%"
style="width: 55%;" data-wow-
duration="1.5s" data-wow-
delay="1.2s">55% </div>

</div>

</div>

</div>

<div class="hd-mg-va">

View All

</div>

</div>

<li class="nav-item"><a href="#" data-
toggle="dropdown" role="button" aria-
expanded="false" class="nav-link
dropdown-toggle"><i
class="notika-icon notika-
chat"></i>

<div role="menu" class="dropdown-
menu message-dd chat-dd animated
zoomIn">

<div class="hd-mg-tt">

<h2>Chat</h2>

</div>

<div class="search-people">

<i class="notika-icon notika-left-
arrow"></i>

<input type="text" placeholder="Search
People" />

</div>

<div class="hd-message-info">

<div class="hd-message-sn">

<div class="hd-message-img chat-img">

<div class="chat-avaible"><i
class="notika-icon notika-
dot"></i></div>

</div>

<div class="hd-mg-ctn">

<h3>David Belle</h3>

<p>Available</p>

</div>

</div>

<div class="hd-message-sn">

<div class="hd-message-img chat-img">

</div>

<div class="hd-mg-ctn">

<h3>Jonathan Morris</h3>

<p>Last seen 3 hours ago</p>

```

</div>
</div>
</a>
<a href="#">
<div class="hd-message-sn">
<div class="hd-message-img chat-img">

</div>
<div class="hd-mg-ctn">
<h3>Fredric Mitchell</h3>
<p>Last seen 2 minutes ago</p>
</div>
</div>
</a>
<a href="#">
<div class="hd-message-sn">
<div class="hd-message-img chat-img">

<div class="chat-avaible"><i
class="notika-icon notika-
dot"></i></div>
</div>
<div class="hd-mg-ctn">
<h3>David Belle</h3>
<p>Available</p>
</div>
</div>
</div>
</a>
<a href="#">
<div class="hd-message-sn">
<div class="hd-message-img chat-img">

<div class="chat-avaible"><i
class="notika-icon notika-
dot"></i></div>
</div>
<div class="hd-mg-ctn">
<h3>Glenn Jacobs</h3>
<p>Available</p>
</div>
</div>
</a>
</div>
<div class="hd-mg-va">
<a href="#">View All</a>
</div>
</div>
</li>
</ul>
</div>
</div> -->
</div>

```

```

</div>

</div> <!-- End Header Top Area -->

<!-- Mobile Menu start -->

<div class="mobile-menu-area mg-tb-40">

<!-- <div class="container">

<div class="row">

<div class="col-lg-12 col-md-12 col-sm-12 col-xs-12">

<div class="mobile-menu">

<nav id="dropdown">

<ul class="mobile-menu-nav">

<li><a data-toggle="collapse" data-target="#Charts" href="#">Home</a>

<ul class="collapse dropdown-header-top">

<li><a href="index.html">Dashboard One</a></li>

<li><a href="index-2.html">Dashboard Two</a></li>

<li><a href="index-3.html">Dashboard Three</a></li>

<li><a href="index-4.html">Dashboard Four</a></li>

<li><a href="analytics.html">Analytics</a></li>
>

<li><a href="widgets.html">Widgets</a></li>

```

```

</ul>

</li>

<li><a data-toggle="collapse" data-target="#demoevent" href="#">Email</a>

<ul id="demoevent" class="collapse dropdown-header-top">

<li><a href="inbox.html">Inbox</a></li>

<li><a href="view-email.html">View Email</a></li>

<li><a href="compose-email.html">Compose Email</a></li>

</ul>

</li>

<li><a data-toggle="collapse" data-target="#democrou" href="#">Interface</a>

<ul id="democrou" class="collapse dropdown-header-top">

<li><a href="animations.html">Animations</a></li>

<li><a href="google-map.html">Google Map</a></li>

<li><a href="data-map.html">Data Maps</a></li>

<li><a href="code-editor.html">Code Editor</a></li>

<li><a href="image-cropper.html">Images Cropper</a></li>

```

```

</li><a
href="wizard.html">Wizard</a></li>

</ul>

</li>

<li><a data-toggle="collapse" data-
target="#demolibra"
href="#">Charts</a>

<ul id="demolibra" class="collapse
dropdown-header-top">

<li><a href="flot-charts.html">Flot
Charts</a></li>

<li><a href="bar-charts.html">Bar
Charts</a></li>

<li><a href="line-charts.html">Line
Charts</a></li>

<li><a href="area-charts.html">Area
Charts</a></li>

</ul>

</li>

<li><a data-toggle="collapse" data-
target="#demodepart"
href="#">Tables</a>

<ul id="demodepart" class="collapse
dropdown-header-top">

<li><a href="normal-
table.html">Normal Table</a></li>

<li><a href="data-table.html">Data
Table</a></li>

</ul>

</li>

```

```

<li><a data-toggle="collapse" data-
target="#demo" href="#">Forms</a>

<ul id="demo" class="collapse
dropdown-header-top">

<li><a href="form-
elements.html">Form
Elements</a></li>

<li><a href="form-
components.html">Form
Components</a></li>

<li><a href="form-
examples.html">Form
Examples</a></li>

</ul>

</li>

<li><a data-toggle="collapse" data-
target="#Miscellaneousmob"
href="#">App views</a>

<ul id="Miscellaneousmob"
class="collapse dropdown-header-top">

<li><a href="notification.html">Notifications</
a>

</li>

<li><a href="alert.html">Alerts</a>

</li>

<li><a href="modals.html">Modals</a>

</li>

<li><a href="buttons.html">Buttons</a>

</li>

```



```

<li><a href="tabs.html">Tabs</a>
</li>

<li><a
href="accordion.html">Accordion</a>
</li>

<li><a href="dialog.html">Dialogs</a>
</li>

<li><a
href="popovers.html">Popovers</a>
</li>

<li><a
href="tooltips.html">Tooltips</a>
</li>

<li><a
href="dropdown.html">Dropdowns</a>
</li>
</ul>
</li>

<li><a data-toggle="collapse" data-
target="#Pagemob"
href="#">Pages</a>

<ul id="Pagemob" class="collapse
dropdown-header-top">

<li><a href="contact.html">Contact</a>
</li>

<li><a href="invoice.html">Invoice</a>
</li>

<li><a
href="typography.html">Typography</a>
>
</li>

<li><a href="color.html">Color</a>
</li>

<li><a href="login-register.html">Login
Register</a>
</li>

<li><a href="404.html">404 Page</a>
</li>
</ul>
</li>
</ul>
</div>
</div>
</div>
</div> -->
</div> <!-- Mobile Menu end -->

<!-- Main Menu area start-->
<div class="main-menu-area mg-tb-40">
<!-- <div class="container">
<div class="row">
<div class="col-lg-12 col-md-12 col-sm-
12 col-xs-12">

```

```
<ul class="nav nav-tabs notika-menu-
wrap menu-it-icon-pro">
```

```
<li class="active"><a data-toggle="tab"
href="#Home"><i class="notika-icon
notika-house"></i> Home</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#mailbox"><i class="notika-icon
notika-mail"></i> Email</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Interface"><i class="notika-icon
notika-edit"></i> Interface</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Charts"><i class="notika-icon
notika-bar-chart"></i> Charts</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Tables"><i class="notika-icon
notika-windows"></i> Tables</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Forms"><i class="notika-icon
notika-form"></i> Forms</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Appviews"><i class="notika-icon
notika-app"></i> App views</a>
```

```
</li>
```

```
<li><a data-toggle="tab"
href="#Page"><i class="notika-icon
notika-support"></i> Pages</a>
```

```
</li>
```

```
</ul>
```

```
<div class="tab-content custom-menu-
content">
```

```
<div id="Home" class="tab-pane in
active notika-tab-menu-bg animated
flipInX">
```

```
<ul class="notika-main-menu-
dropdown">
```

```
<li><a href="index.html">Dashboard
One</a>
```

```
</li>
```

```
<li><a href="index-2.html">Dashboard
Two</a>
```

```
</li>
```

```
<li><a href="index-3.html">Dashboard
Three</a>
```

```
</li>
```

```
<li><a href="index-4.html">Dashboard
Four</a>
```

```
</li>
```

```
<li><a
href="analytics.html">Analytics</a>
```

```
</li>
```

```
<li><a
href="widgets.html">Widgets</a>
```

```
</li>
```

```

</ul>

</div>

<div id="mailbox" class="tab-pane
notika-tab-menu-bg animated flipInX">

<ul class="notika-main-menu-
dropdown">

<li><a href="inbox.html">Inbox</a>

</li>

<li><a href="view-email.html">View
Email</a>

</li>

<li><a href="compose-
email.html">Compose Email</a>

</li>

</ul>

</div>

<div id="Interface" class="tab-pane
notika-tab-menu-bg animated flipInX">

<ul class="notika-main-menu-
dropdown">

<li><a
href="animations.html">Animations</a>
>

</li>

<li><a href="google-map.html">Google
Map</a>

</li>

<li><a href="data-map.html">Data
Maps</a>

</li>

</ul>

</div>

<div id="Charts" class="tab-pane notika-
tab-menu-bg animated flipInX">

<ul class="notika-main-menu-
dropdown">

<li><a href="flot-charts.html">Flot
Charts</a>

</li>

<li><a href="bar-charts.html">Bar
Charts</a>

</li>

<li><a href="line-charts.html">Line
Charts</a>

</li>

<li><a href="area-charts.html">Area
Charts</a>

</li>

</ul>

```

```

</div>

<div id="Tables" class="tab-pane notika-
tab-menu-bg animated flipInX">

<ul          class="notika-main-menu-
dropdown">

<li><a              href="normal-
table.html">Normal Table</a>

</li>

<li><a      href="data-table.html">Data
Table</a>

</li>

</ul>

</div>

<div id="Forms" class="tab-pane notika-
tab-menu-bg animated flipInX">

<ul          class="notika-main-menu-
dropdown">

<li><a              href="form-
elements.html">Form Elements</a>

</li>

<li><a              href="form-
components.html">Form
Components</a>

</li>

<li><a              href="form-
examples.html">Form Examples</a>

</li>

</ul>

</div>

<div id="Appviews" class="tab-pane
notika-tab-menu-bg animated flipInX">

<ul          class="notika-main-menu-
dropdown">

<li><a
href="notification.html">Notifications</
a>

</li>

<li><a href="alert.html">Alerts</a>

</li>

<li><a href="modals.html">Modals</a>

</li>

<li><a
href="buttons.html">Buttons</a>

</li>

<li><a href="tabs.html">Tabs</a>

</li>

<li><a
href="accordion.html">Accordion</a>

</li>

<li><a href="dialog.html">Dialogs</a>

</li>

<li><a
href="popovers.html">Popovers</a>

</li>

<li><a
href="tooltips.html">Tooltips</a>

</li>

```


</div>	</div>
</div>	</div>
<!-- End Status area-->	</div>
	</div>
<!-- Start Email Statistic area-->	</div>
<div class="notika-email-post-area mg-tb-30">	<div class="col-lg-6 col-md-6 col-sm-12 col-xs-12">
<div class="container">	<div class="email-statis-inner notika-shadow">
<div class="row">	<div class="email-ctn-round">
<div class="col-lg-6 col-md-6 col-sm-12 col-xs-12">	<div class="email-rdn-hd">
<div class="email-statis-inner notika-shadow">	KETINGGIAN AIR
<div class="email-ctn-round">	</div>
<div class="email-rdn-hd">	<div class="email-statis-wrap">
KEKERUHAN AIR	<div class="email-round-nock">
</div>	<input id="ket" type="text" class="knob" value="0" data-rel="0" data-linecap="round" data-width="130" data-bgcolor="#E4E4E4" data-fgcolor="#00c292" data-thickness=".10" data-readonly="true">
<div class="email-statis-wrap">	</div>
<div class="email-round-nock">	<div class="email-ctn-nock">
<input id="kek" type="text" class="knob" value="0" data-rel="0" data-linecap="round" data-width="130" data-bgcolor="#E4E4E4" data-fgcolor="#00c292" data-thickness=".10" data-readonly="true">	<p class="date">2024-03-19 14:04:20</p>
</div>	</div>
<div class="email-ctn-nock">	</div>
<p class="date">2024-03-19 14:04:20</p>	</div>

</div>	</div>
</div>	</div>
</div>	</div>
</div>	</div>
</div>	</div>
<!-- End Email Statistic area-->	<!-- End Realtime sts area-->
<!-- Start Realtime sts area-->	<!-- Start Footer area-->
<div class="notika-status-area">	<div class="footer-copyright-area">
<div class="container">	<div class="container">
<div class="row">	<div class="row">
<div class="col-lg-12 col-md-12 col-sm-12 col-xs-12">	<div class="col-lg-12 col-md-12 col-sm-12 col-xs-12">
<div class="breadcomb-list mg-tb-100">	<div class="footer-copy-right">
<div class="breadcomb-wp">	Copyright © 2024. All rights reserved. Powered by Perangkap Hama.
<div class="breadcomb-icon">	</div>
<i class="notika-icon notika-calendar"></i>	</div>
</div>	</div>
<div class="breadcomb-ctn text-center">	</div>
WAKTU	</div> <!-- End Footer area-->
<p id="date"></p>	
<p id="waktu"></p>	<!-- jquery
</div>	=====
</div>	===== -->

```
<script      src="js/vendor/jquery-1.12.4.min.js"></script>
```

```
<!-- bootstrap JS
```

```
=====
===== -->
```

```
<script
src="js/bootstrap.min.js"></script>
```

```
<!-- wow JS
```

```
=====
===== -->
```

```
<script src="js/wow.min.js"></script>
```

```
<!-- price-slider JS
```

```
=====
===== -->
```

```
<script      src="js/jquery-price-slider.js"></script>
```

```
<!-- owl.carousel JS
```

```
=====
===== -->
```

```
<script
src="js/owl.carousel.min.js"></script>
```

```
<!-- scrollUp JS
```

```
=====
===== -->
```

```
<script
src="js/jquery.scrollUp.min.js"></script>
>
```

```
<!-- meanmenu JS
```

```
=====
===== -->
```

```
<script
src="js/meanmenu/jquery.meanmenu.js"></script>
```

```
<!-- counterup JS
```

```
=====
===== -->
```

```
<script
src="js/counterup/jquery.counterup.min.js"></script>
```

```
<script
src="js/counterup/waypoints.min.js"></script>
```

```
<script      src="js/counterup/counterup-active.js"></script>
```

```
<!-- mCustomScrollbar JS
```

```
=====
===== -->
```

```
<script
src="js/scrollbar/jquery.mCustomScrollbar.concat.min.js"></script>
```

```
<!-- jvectormap JS
```

```
=====
===== -->
```

```
<script      src="js/jvectormap/jquery-jvectormap-2.0.2.min.js"></script>
```

```
<script      src="js/jvectormap/jquery-jvectormap-world-mill-en.js"></script>
```

```
<script src="js/jvectormap/jvectormap-active.js"></script>
```

```
<!-- sparkline JS
```

```
=====
===== -->
```



```
<script
src="js/sparkline/jquery.sparkline.min.js
"></script>
```

```
<script      src="js/sparkline/sparkline-
active.js"></script>
```

```
<!-- sparkline JS
```

```
=====
===== -->
```

```
<script
src="js/flot/jquery.flot.js"></script>
```

```
<script
src="js/flot/jquery.flot.resize.js"></scrip
t>
```

```
<script
src="js/flot/curvedLines.js"></script>
```

```
<script      src="js/flot/flot-
active.js"></script>
```

```
<!-- knob JS
```

```
=====
===== -->
```

```
<script
src="js/knob/jquery.knob.js"></script>
```

```
<script
src="js/knob/jquery.appear.js"></script
>
```

```
<script      src="js/knob/knob-
active.js"></script>
```

```
<!-- wave JS
```

```
=====
===== -->
```

```
<script
src="js/wave/waves.min.js"></script>
```

```
<script      src="js/wave/wave-
active.js"></script>
```

```
<!-- todo JS
```

```
=====
===== -->
```

```
<script
src="js/todo/jquery.todo.js"></script>
```

```
<!-- plugins JS
```

```
=====
===== -->
```

```
<script src="js/plugins.js"></script>
```

```
<!-- Chat JS
```

```
=====
===== -->
```

```
<script
src="js/chat/moment.min.js"></script>
```

```
<script
src="js/chat/jquery.chat.js"></script>
```

```
<!-- main JS
```

```
=====
===== -->
```

```
<script src="js/main.js"></script>
```

```
<!-- tawk chat JS
```

```
=====
===== -->
```

```
<!--      <script      src="js/tawk-
chat.js"></script> --> <script>
```

```
function updateTime() {
```

```
const now = new Date();
```

```

const          hours          =
String(now.getHours()).padStart(2, '0');

const          minutes        =
String(now.getMinutes()).padStart(2,
'0');

const          seconds        =
String(now.getSeconds()).padStart(2,
'0');

const          timeString      =
`${hours}:${minutes}:${seconds}`;

document.getElementById('waktu').text
Content = timeString;

const month = String(now.getMonth() +
1).padStart(2, '0');

const          day            =
String(now.getDate()).padStart(2, '0');

const year = now.getFullYear();

const          dateString      =
`${day}/${month}/${year}`;

document.getElementById('date').textC
ontent = dateString

}

// Update time every second

setInterval(updateTime, 1000);

// Initial call to display time immediately

updateTime();

const url = window.location;

const uri = url.origin + '/getSensor';

function getSensor() {

return new Promise((resolve, reject) =>
{

$.ajax({

type: "GET",

url: uri,

dataType: "JSON",

success: function(data) {

resolve(data)

},

error: function() {

reject(new Error('Failed get data.'));

}

});

});

}

const cd = setInterval(async () => {

console.log('get data')

try {

const sensorData = await getSensor();

console.log(sensorData);

$('.date').html(sensorData.updated_at);

```

```

$('#kek').each(function () {
    var $this = $(this),
        knobVal = $this.attr('data-rel');

    $this.knob({
        'draw': function () {
            $(this.i).val(this.cv + '%')
        }
    });

    $this.appear(function () {
        $({
            value: knobVal
        }).animate({
            value: sensorData.kekeruhan_air
        }, {
            duration: 2000,
            easing: 'swing',
            step: function () {
                $this.val(Math.ceil(this.value)).trigger('change');
            }
        });
    }, {
        accX: 0,
        accY: -150
    });
});

});

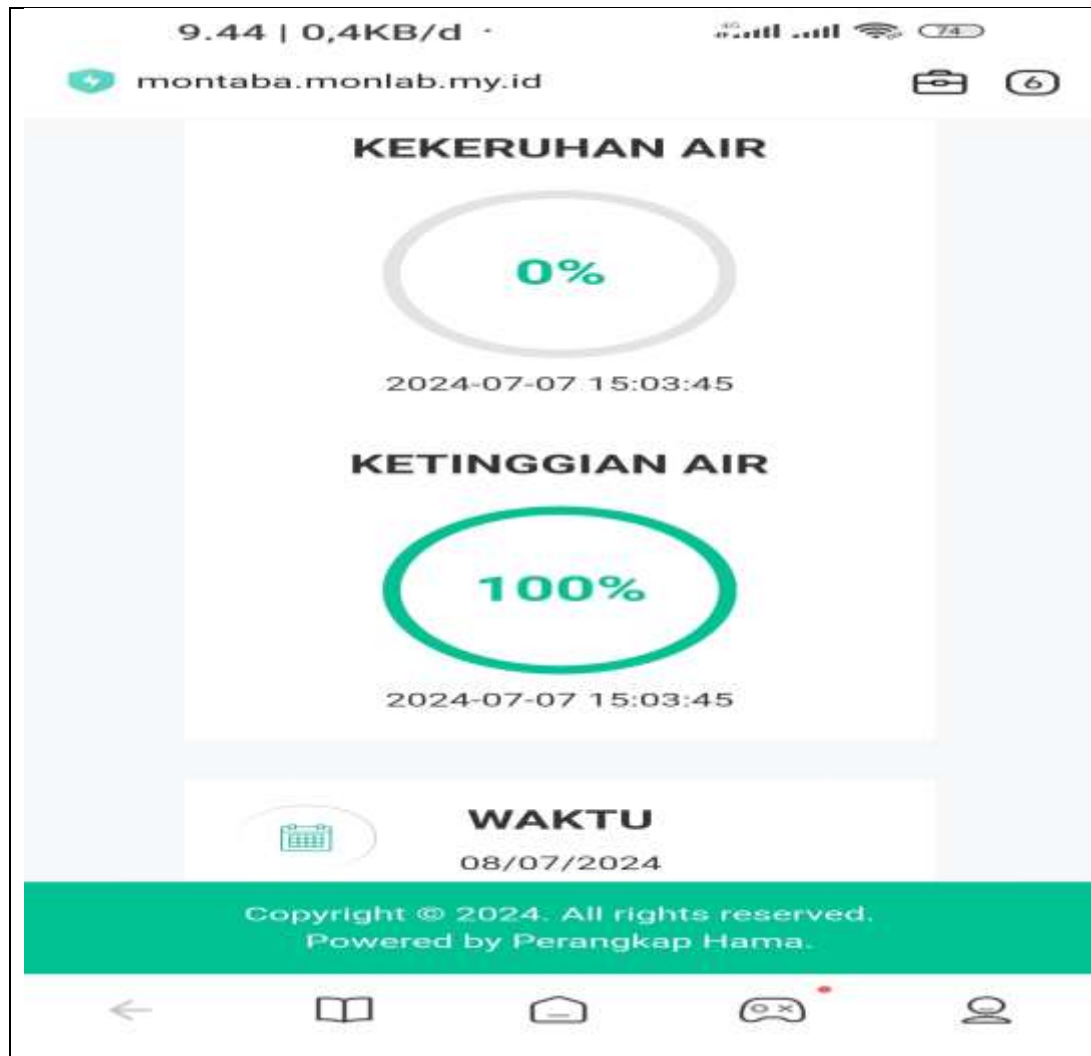
$('#ket').each(function () {
    var $this = $(this),
        knobVal = $this.attr('data-rel');

    $this.knob({
        'draw': function () {
            $(this.i).val(this.cv + '%')
        }
    });

    $this.appear(function () {
        $({
            value: knobVal
        }).animate({
            value: sensorData.ketinggian_air
        }, {
            duration: 2000,
            easing: 'swing',
            step: function () {
                $this.val(Math.ceil(this.value)).trigger('change');
            }
        });
    });
});

```

```
});                                console.error(error);
}, {                                }
accX: 0,                          }, 3000);
accY: -150                        </script>
});                                </body>
$this.attr('data-rel',            </html>
sensorData.ketinggian_air)
});
} catch (error) {
```

LAMPIRAN-3 Tampilan monitoring pada handphone

LAMPIRAN-4 Gambar Pegujian Sensor kekeruhan air dengan TDS Meter



LAMPIRAN-5 Gambar Display LCD dengan ket nilai sensor TDS (kekeruhan), dan ketinggian air (water level)



LAMPIRAN-5 tampilan alat keseluruhan

LAMPIRAN-5 hama yang terperangkap pada bak yang di isi air



LAMPIRAN-6 tampilan alat manual



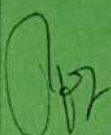
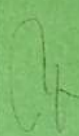
LAMPIRAN-7 Lembar Monitoring Ujian proposal



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

PROPOSAL

Mahasiswa : ABDUL RAHIM	Pembimbing I : MUH. BASRI, ST.,MT
NIM : 219280184	Pembimbing II : ANDI WAFIAH, S.Kom, M.Kom
Judul Skripsi : PERANCANGAN ALAT PERANGKAP DAN PEMBASMI HAMA PADA TANAMAN BAWANG MERAH	

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 1 <i>Rancangan Skripsi</i>		Konsultasi 1 Format Penulisan disesuaikan dgn pedoman yg terbaru.	4
Konsultasi 2		Konsultasi 2 - Jelaskan masing-masing dampak dari setiap hama - Daftar Pustaka diupdate (ikuti pedoman penulisan)	4
Konsultasi 3		Konsultasi 3 - Penelitian terdahulu yg diambil 3 thn terakhir - Uraikan rancangan alat yg diusulkan	4
Konsultasi 4 <i>Revisi skripsi ulang</i>		Konsultasi 4 ACC	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

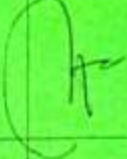
LAMPIRAN-8 Lembar Monitoring Ujian Hasil



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

SKRIPSI

Mahasiswa : Abdul Rahim	Pembimbing I : Muh. Basri, ST., MT.
NIM : 219280184	Pembimbing II : Andi Wafiah, S.Kom., M.Kom
Judul Skripsi : PERANCANGAN ALAT PERANGKAP DAN PEMBIASMI HAMA PADA TANAMAN BAWANG MERAH	

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 1 Rancangan alat	50mm 20-11-2023 	Konsultasi 1 -Lengkapi abstrak sesuai dgn pedoman penulisan	4
Konsultasi 2 Acc proposal Hari		Konsultasi 2 -Lengkapi abstrak dgn -koreksikan antara tujuan dan manfaat Penelitian	4
Konsultasi 3		Konsultasi 3 - ACC ujian hasil	4
Konsultasi 4		Konsultasi 4	
Konsultasi 5		Konsultasi 5	

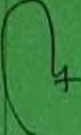
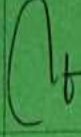
Lanjut ke halaman sebelah...

Perhatian :

1. Mahasiswa wajib konsultasi minimal 5 kali
2. Kartu ini wajib dibawa oleh mahasiswa setiap 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 A1 berwarna Hijau muda dan dicetak timbal balik

LAMPIRAN-9 Lembar Monitoring Ujian Tutup

KARTU MONITORING BIMBINGAN			
MAHASISWA PROGRAM STUDI TEKNIK INFORMATIKA			
FAKULTAS TEKNIK			
UNIVERSITAS MUHAMMADIYAH PAREPARE			
UJIAN TUTUP			
Mahasiswa : Abdul Rahim		Pembimbing I : Muh. Basri, ST.,MT	
NIM : 219280184		Pembimbing II : Andi Wafiah, S.Kom.,M.Kom	
Judul Skripsi : PERANCANGAN ALAT PERANGKAP DAN PEMBASMI HAMA PADA TANAMAN BAWANG MERAH			

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Konsultasi 1 tuliz dan Ceser tgl. di Skripsi		Konsultasi 1 Acc Ujian Tutup	
Konsultasi 2 Acc tuliz		Konsultasi 2	
Konsultasi 3		Konsultasi 3	
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 disertai konsultasi dan disetujui oleh Pembimbing
3. Kartu ini wajib ditempelkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut bersaing proposal/ujian skripsi
4. Kartu ini dibuat di atas kertas karton berwarna hijau muda dan dicetak timbul baik

LAMPIRAN-10 Sertifikat Lab

