LAMPIRAN

Listing program (sketch program)

```
#include <OneWire.h>
#include <DallasTemperature.h>
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 16, 2);
#define ONE_WIRE_BUS 5
OneWire oneWire(ONE_WIRE_BUS);
DallasTemperature sensors(&oneWire);
 float Celcius=0;
 int tempc;
 float vout;
 float adc;
void setup(void)
{
  Serial.begin(9600);
  sensors.begin();
  lcd.begin();
  lcd.backlight();
}
void loop(void)
```

```
{
  sensors.requestTemperatures();
  Celsius=sensors.getTempCByIndex(0);
  adc = analogRead(A1);
  vout = (adc / 1023) * 5000;
  tempc = vout / 10;
 lcd.setCursor(7,1);
  lcd.print("T:");
  lcd.print(vout);
  lcd.print("v");
  lcd.print(" ");
  lcd.setCursor(0,0);
  Serial.print(" C  ");
  Serial.print(Celcius);
  lcd.setCursor(0,0);
  lcd.print("DS18 : ");
  lcd.print(Celcius);
  lcd.print(" C");
  Serial.print("ds18= ");
  Serial.print(tempc);
  Serial.println("C");
  lcd.setCursor(0,1);
  lcd.print("LM:");
```

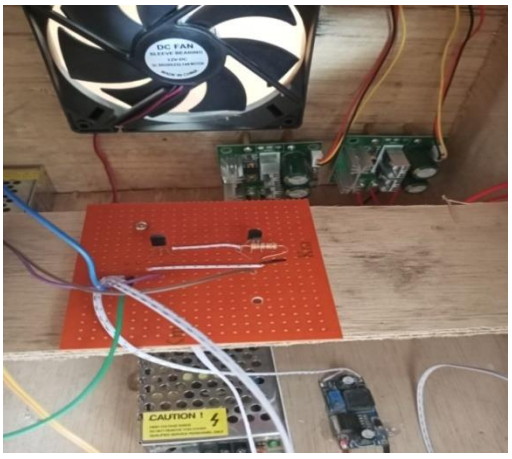
```
  lcd.print(tempc);
  lcd.print("C");
  delay(1000);
}
```

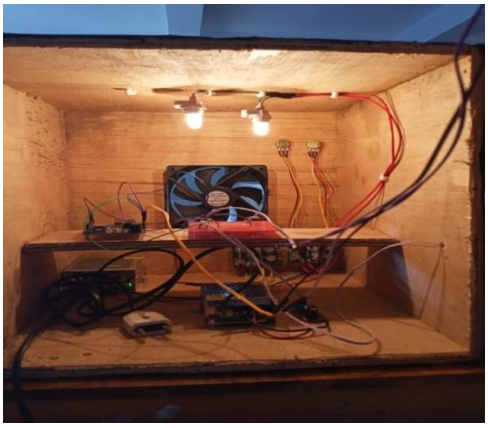
Dokumentasi alat














DS18 1 26.75 C
LM129C 1:298.14V