Codes Program

Kipas Angin Otomatis Berbasis Mikrokontroler dengan Sensor Suhu DHT11 dan LCD+I2C

```cpp
#include <LiquidCrystal_I2C.h>
#include <DHT.h>

LiquidCrystal_I2C lcd (0x27, 16, 2);
DHT dht (2, DHT11);

#define kipas 5

void setup()
{
  Serial.begin (9600);
  pinMode (kipas, OUTPUT);

  dht.begin();

  lcd.backlight();
  lcd.begin (16, 2);

  lcd.setCursor (1, 0);
  lcd.print ("KIPAS OTOMATIS");

}

void loop()
{
  delay (2000);

  float suhu = dht.readTemperature();
  float kelembaban = dht.readHumidity();

  if (isnan (suhu) || isnan (kelembaban)){
    Serial.print (F ("gagal membaca data dht sensor"));

    return;
  }

  lcd.clear();
  lcd.setCursor (0, 0);
  lcd.print (("Suhu : "));
  lcd.print (suhu, 1);
  lcd.print (" C");

  lcd.setCursor(0, 1);
  lcd.print("Lembab : ");
  lcd.print(kelembaban, 1); // Print one decimal place
```

```
  lcd.print(" %");
  delay (1000);

  Serial.print ("Suhu : ");
  Serial.print (suhu);
  Serial.print (" C");
  delay (1000);

  if (suhu > 25.00){
    lcd.clear();
    digitalWrite (kipas, LOW);
    lcd.print ("KIPAS : ON");
  }
  else {
    lcd.clear();
    digitalWrite (kipas, HIGH);
    lcd.print ("KIPAS : OFF");
  }

}
```