

LAMPIRAN**Listing Program**

```
#include <AccelStepper.h>

#include <DHT.h>

#include <Wire.h>

#include <LiquidCrystal_I2C.h>

#include <EEPROM.h>

// Pin untuk motor stepper

#define motorPin1 2

#define motorPin2 3

#define motorPin3 8

#define motorPin4 9

// Pin sensor lainnya

int air = A0;

int cahaya = A2;

#define DHTPIN A1 // Pin data DHT22

#define DHTTYPE DHT22 // Tipe sensor DHT

// Interface tipe motor stepper (4-pin)

#define MotorInterfaceType 4

// Inisialisasi objek
```

```
AccelStepper stepper = AccelStepper(MotorInterfaceType, motorPin1,  
    motorPin3, motorPin2, motorPin4);  
  
DHT dht(DHTPIN, DHTTYPE);  
  
LiquidCrystal_I2C lcd(0x27, 16, 2); // Alamat I2C LCD bisa berbeda (0x27 atau  
    0x3F)  
  
long posisi_terakhir;  
  
void simpanPosisi(long posisi) {  
    EEPROM.put(0, posisi);  
}  
  
void setup() {  
    stepper.setMaxSpeed(500);  
    stepper.setAcceleration(500);  
    Serial.begin(9600);  
    Serial.println("Jemuran Otomatis Siap");  
    pinMode(air, INPUT);  
    pinMode(cahaya, INPUT);  
    dht.begin();  
    lcd.init();  
    lcd.backlight();  
    lcd.setCursor(0, 0);  
    lcd.print("Suhu:  Hum: %");
```

```
EEPROM.get(0, posisi_terakhir);

stepper.setCurrentPosition(posisi_terakhir);

Serial.print("Posisi terakhir motor: ");

Serial.println(posisi_terakhir);

}

void loop() {

    int data_air = analogRead(air);

    int data_cahaya = analogRead(cahaya);

    int suhu = dht.readTemperature();

    int kelembaban = dht.readHumidity();

    if (isnan(suhu) || isnan(kelembaban)) {

        Serial.println("Gagal membaca sensor DHT22");

        return;

    }

    lcd.setCursor(5, 0);

    lcd.print(" ");

    lcd.setCursor(5, 0);

    lcd.print(suhu);

    lcd.print((char)223);

    lcd.setCursor(13, 0);
```

```
lcd.print(" ");  
lcd.setCursor(13, 0);  
lcd.print(kelembaban);  
  
Serial.print("Data Air: ");  
Serial.println(data_air);  
Serial.print("Data Cahaya: ");  
Serial.println(data_cahaya);  
Serial.print("Suhu: ");  
Serial.println(suhu);  
Serial.print("Kelembaban: ");  
Serial.println(kelembaban);  
  
if (data_cahaya < 830 && data_air > 700) {  
    if (stepper.currentPosition() != 6550) {  
        Serial.println("Kondisi: Cerah - Jemuran Keluar");  
        lcd.setCursor(0, 1);  
        lcd.print("Jemuran Keluar ");  
        stepper.moveTo(6550);  
        stepper.runToPosition();  
        simpanPosisi(6550);  
    }  
} else {  
    if (stepper.currentPosition() != 0) {
```

```
Serial.println("Kondisi: Hujan atau Malam - Jemuran Didalam");  
  
lcd.setCursor(0, 1);  
  
lcd.print("Jemuran Didalam ");  
  
stepper.moveTo(0);  
  
stepper.runToPosition();  
  
simpanPosisi(0);  
  
}  
  
}  
  
delay(2000);  
  
}
```