

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>

// Set the LCD address to 0x27 for a 16 chars and 2 line display
LiquidCrystal_I2C lcd(0x27, 16, 2);

#include "DHT.h"
#define DHTPIN 2 // Digital pin connected to the DHT sensor
#define DHTTYPE DHT11 // DHT 11
DHT dht(DHTPIN, DHTTYPE);
int hujan = 0;
void setup() {
  Serial.begin(9600);
  Serial.println(F("DHTxx test!"));
  dht.begin();
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
  pinMode(7, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
  lcd.begin();
  lcd.backlight();
}

void loop() {
home:
  float h = dht.readHumidity();
```

```
float t = dht.readTemperature();  
float f = dht.readTemperature(true);  
if (isnan(h) || isnan(t) || isnan(f)) {  
    lcd.print("failed");  
    Serial.println(F("Failed to read from DHT sensor!"));  
    lcd.clear();  
    return;  
}
```

```
Serial.println(analogRead(A0));  
digitalWrite(5 , LOW);  
digitalWrite(7 , LOW);  
analogWrite(6 , 0);  
digitalWrite(4, HIGH);  
digitalWrite(3, HIGH);  
if (hujan == 0) {  
    lcd.home();  
    lcd.print("klmbaban : ");  
    lcd.print(h);  
    lcd.print(" ");  
    lcd.setCursor(0, 1);  
    lcd.print("suhu : ");  
    lcd.print(t);  
    digitalWrite(4, HIGH);  
    digitalWrite(3, HIGH);  
}
```

```
if (analogRead(A0) < 300 && hujan == 0) {  
    lcd.clear();  
    lcd.print("hujan");  
    hujan = 1;  
}  
if (analogRead(A0) > 700 && hujan == 1) {  
    lcd.clear();  
    lcd.print("hujan berhenti");  
    lcd.setCursor(0, 1);  
    lcd.print("kursi berputar");  
    hujan = 2;  
}  
if (hujan == 2) {  
    digitalWrite(5 , HIGH);  
    digitalWrite(7, LOW);  
    analogWrite(6 , 255);  
    delay(10000);  
    digitalWrite(5 , LOW);  
    digitalWrite(7, LOW);  
    analogWrite(6 , 0);  
    lcd.clear();  
    digitalWrite(3, LOW);  
    digitalWrite(4, LOW);  
    delay(40000);  
    hujan = 0;  
}  
}
```

