ASSIGNMENT-2

Code:

#define soilmoisture A0

#define temperature A1

int led\_red = 13;

float moistureValue=0,tempValue=0;

void setup() {

Serial.begin(9600);

pinMode(led\_red, OUTPUT);

pinMode(soilmoisture,INPUT);

pinMode(temperature,INPUT);

}

void loop() {

moistureValue = analogRead(soilmoisture);

tempValue = analogRead(temperature);

float volts = (tempValue / 965.0) \* 5;

float celcius = (volts - 0.5) \* 100;

Serial.print("\nTempValue: ");

Serial.print(celcius);

Serial.print("\tMoistureValue: ");

Serial.println(moistureValue);

if(tempValue>=25&&moistureValue<=100){

digitalWrite(led\_red, HIGH);

}

delay(1000); // wait 1 seconds

}