ASSIGNMENT 1

CIRCUIT VIEW:
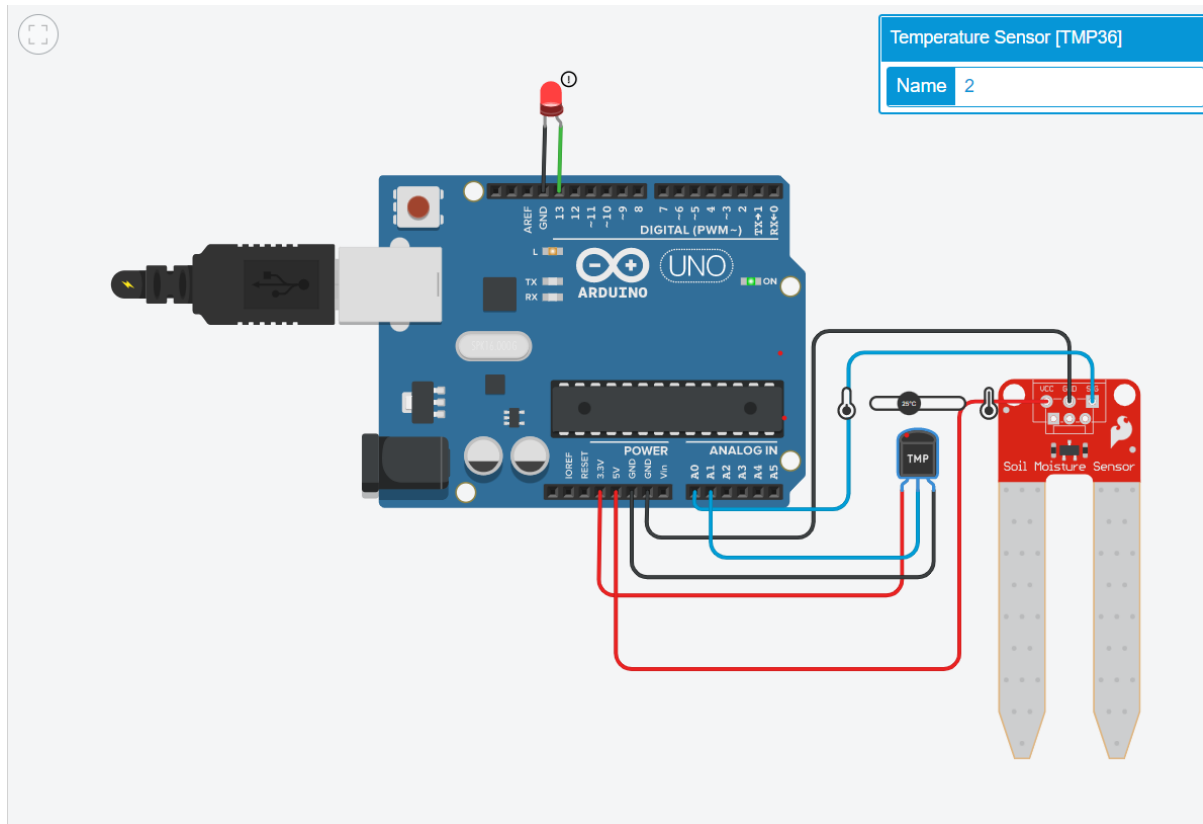
SCHEMATIC VIEW:
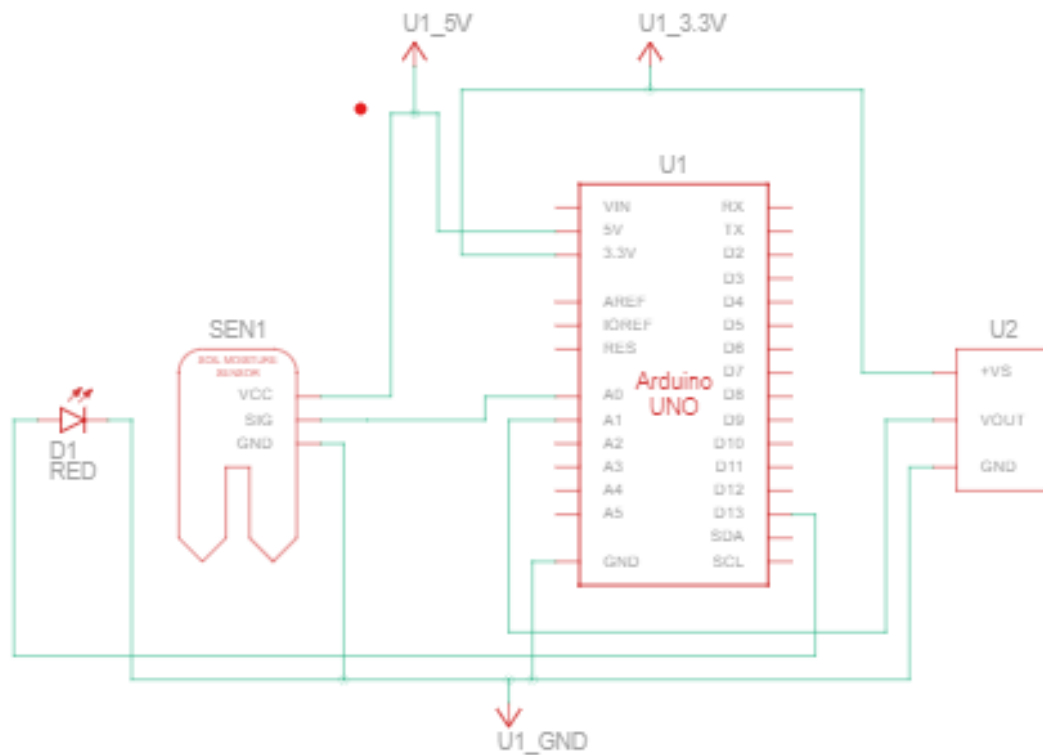
PROJECT URL:

PROJECT 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

}
```