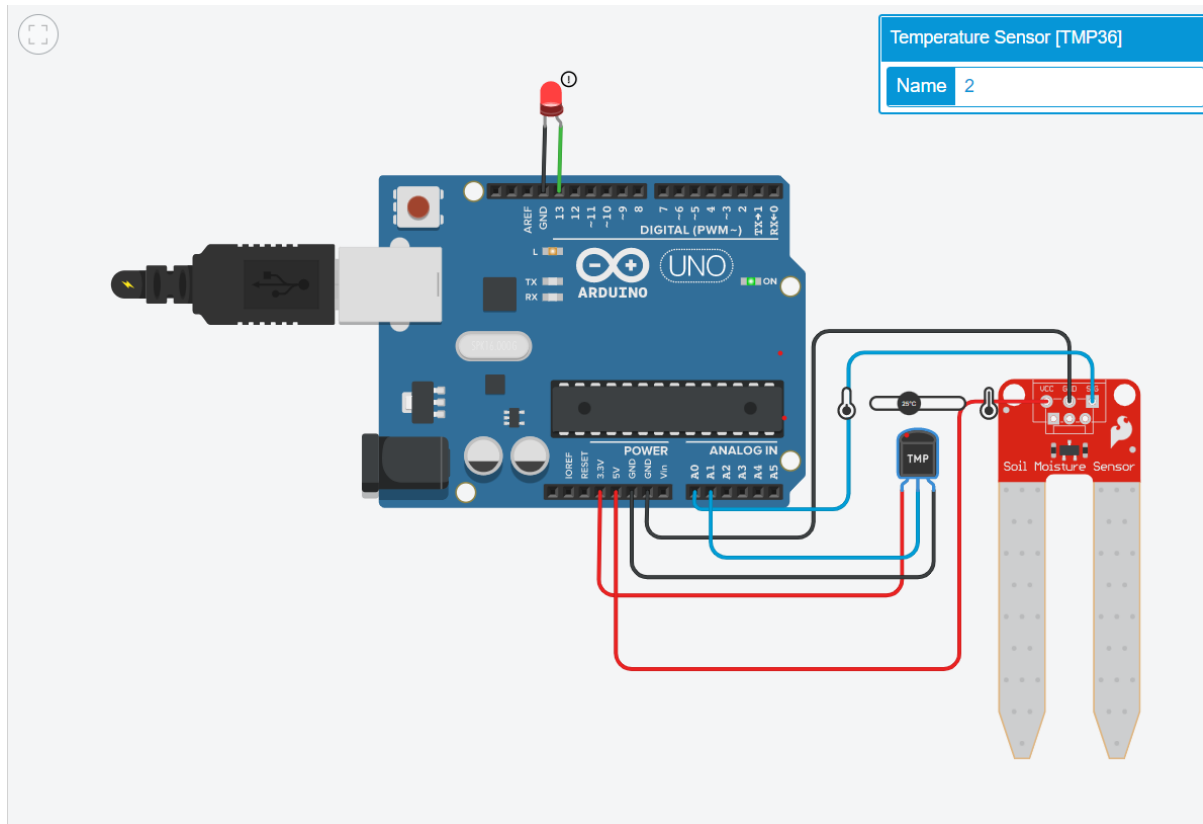
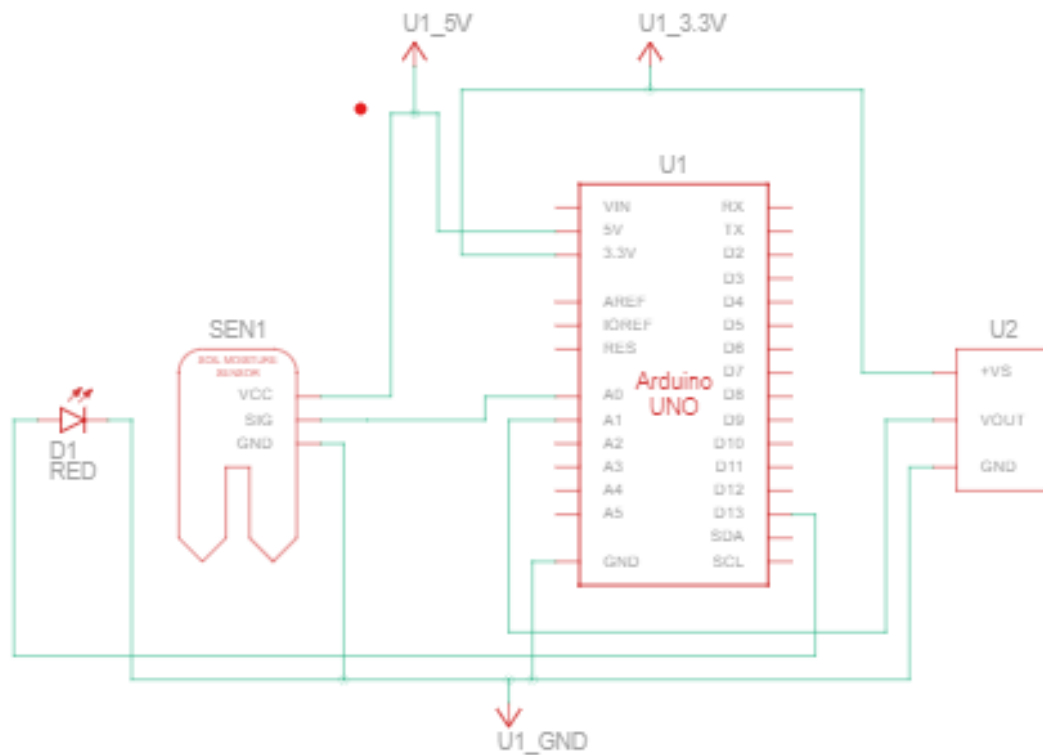


ASSIGNMENT 1

CIRCUIT VIEW:



SCHEMATIC VIEW:



PROJECT URL:

<https://www.tinkercad.com/things/8q5vZRSEXcj-editing-components/editel?lessonid=EFU6PEHIXGFUR1J&projectid=OGK4Q7VL20FZRV9&collectionid=O0K87SQL1W5N4P2&sharecode=trStTzJcN1E15qOBvYBUE0eVWWXRElgMu8YUX7frovo>

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
}
```