Aula 3 – Exercício de sensor de temperatura
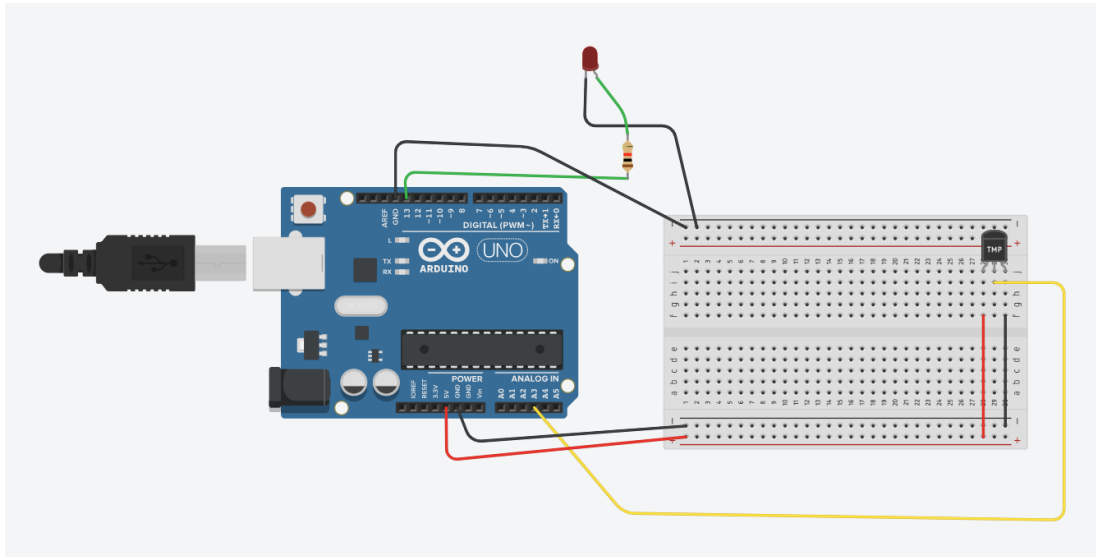


```
 1  int led_1;
 2  void setup(){
 3    led_1 =13;
 4    pinMode(13,OUTPUT);
 5    Serial.begin(9600);
 6  }
 7
 8  void loop()
 9  {
10     int sensorValue = analogRead(A3);
11     float voltage = sensorValue * (5.0/1023.0);
12     Serial.print("Tensao = ");
13     Serial.print(voltage);
14     Serial.print("V");
15     Serial.println();
16     delay(2000);
17     float temp = (voltage-0.5)*100;
18     Serial.print("Temperatura = ");
19     Serial.print(temp);
20     Serial.print("@C");
21     Serial.println();
22     if (temp>25){
23       digitalWrite(13,HIGH);
24     }
```

Serial Monitor

```
Tensao = 0.75V
Temperatura = 24.78@C
Tensao = 0.75V
```