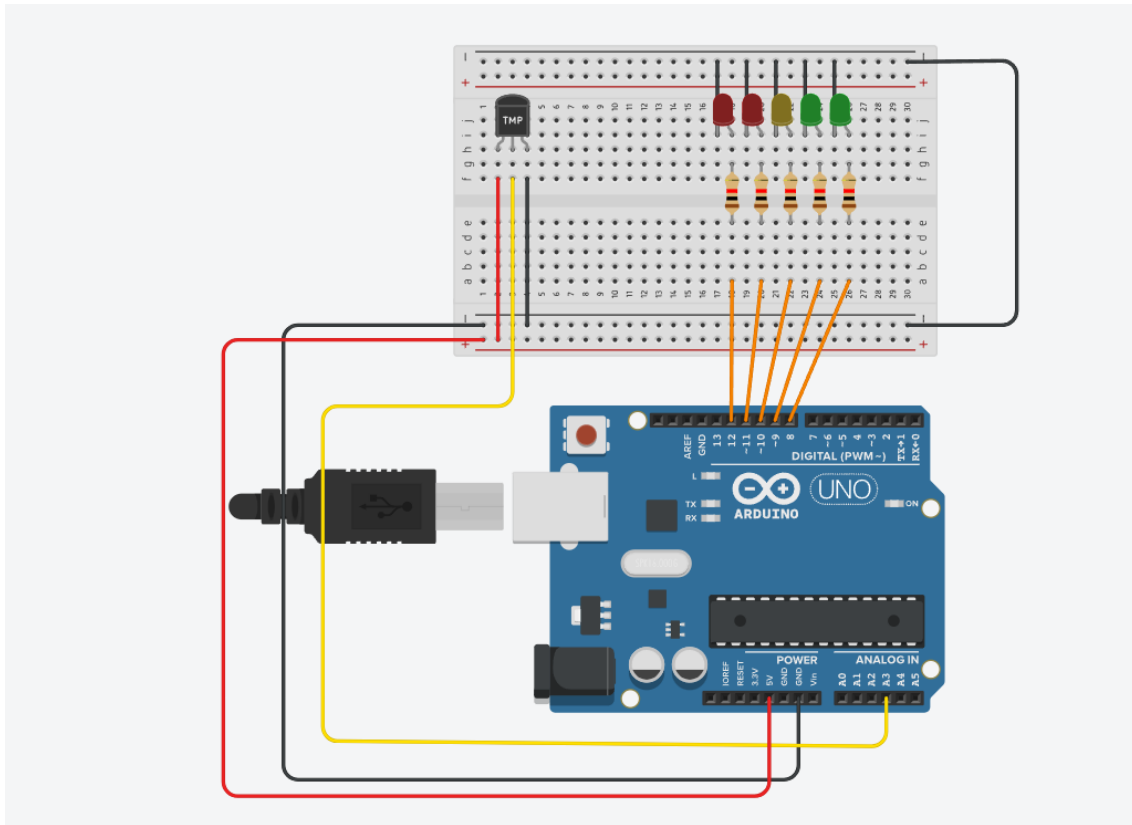


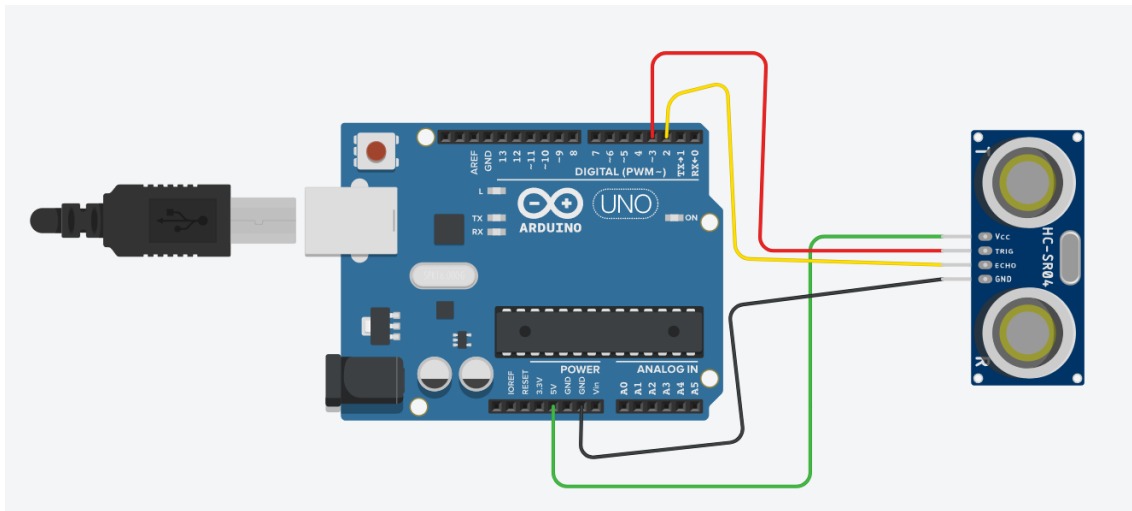
### Atividade 3



```

1 int led_1;
2 void setup(){
3     led_1 =13;
4     pinMode(13,OUTPUT);
5     Serial.begin(9600);
6 }
7 void loop()
8 {
9     int sensorValue = analogRead(A3);
10    float voltage = sensorValue * (5.0/1023.0);
11    Serial.print("Tensao = ");
12    Serial.print(voltage);
13    Serial.print("V");
14    Serial.println();
15    delay(2000);
16    float temp = (voltage-0.5)*100;
17    Serial.print("Temperatura = ");
18    Serial.print(temp);
19    Serial.print("°C");
20    Serial.println();
21
22    if (temp >= -20){
23        digitalWrite(8, HIGH);
24    }else{digitalWrite(8, LOW);
25    }
26
27    if(temp >= 0){
28        digitalWrite(9,HIGH);
29    }else {digitalWrite(9, LOW);
30    }
31
32    if (temp >= 20){
33        digitalWrite(10, HIGH);
34    }else {digitalWrite(10, LOW);
35    }
36
37    if (temp >= 40){
38        digitalWrite(11, HIGH);
39    }else {digitalWrite(11, LOW);
40    }
41
42    if (temp >= 50){
43        digitalWrite(12, HIGH);
44    } else {digitalWrite(12, LOW);}|
45    delay(2000);}

```



```
1 float time = 0;
2 float distancia = 0;
3
4 void setup ()
5 {
6
7   pinMode (3, OUTPUT) ;
8   pinMode (2, INPUT);
9   Serial.begin (9600);
10 }
11 void loop ()
12 {
13   digitalWrite (3, LOW);
14   delayMicroseconds (2);
15   digitalWrite (3, HIGH);
16   delayMicroseconds (10);
17   time = pulseIn (2, HIGH) ;
18   Serial.println ("Tempo: " + String (time/1000) + "ms");
19   // time = microssegundos
20   distancia = time/1000000 * 170 * 100;
21   Serial.println ("Distancia: " + String (distancia) + "cm");
22   delay (10);
23 }
```