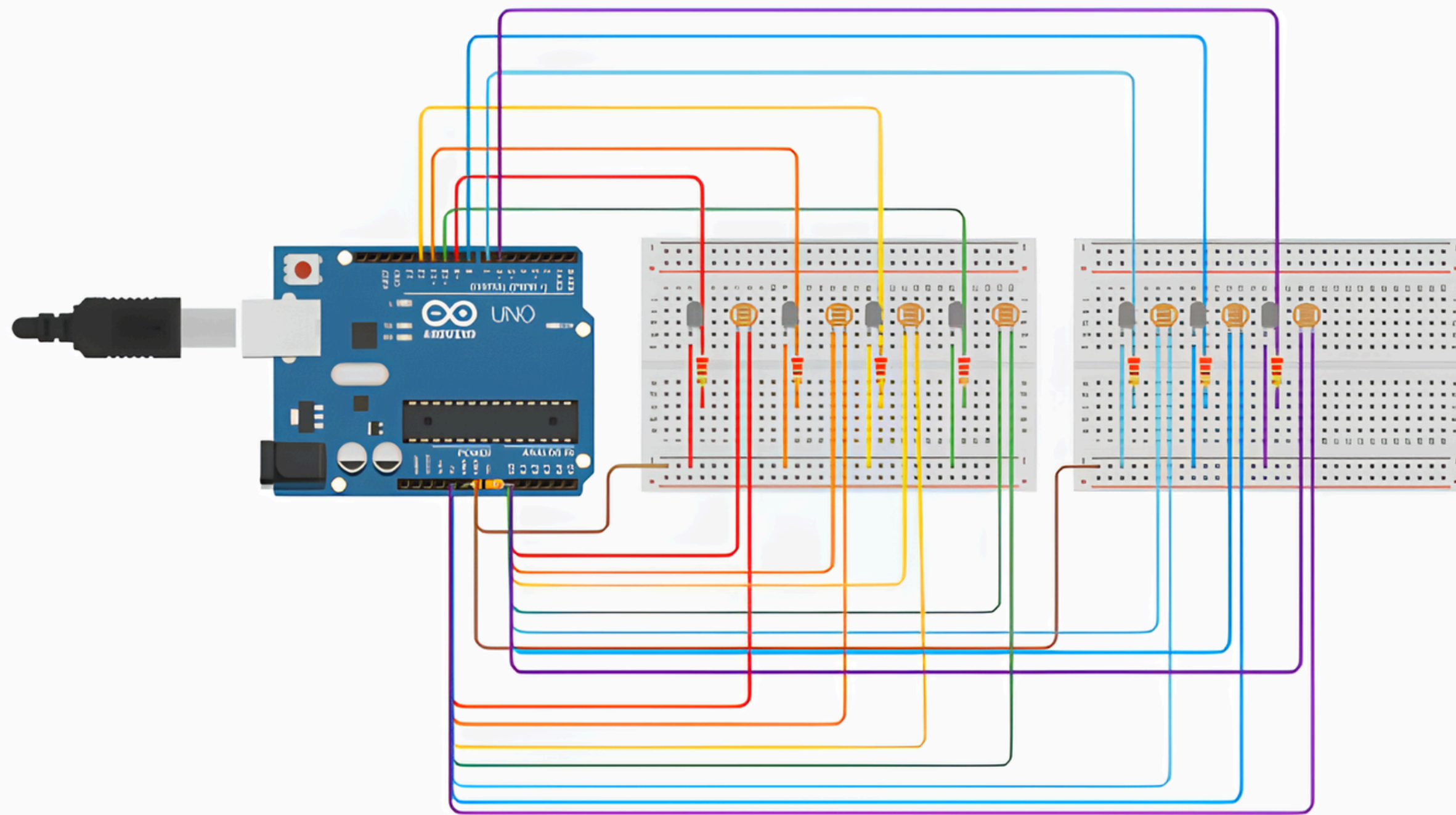


Sistema de iluminação inteligente

Descrição

- **sistema automatizado de iluminação**
- **detectar a luminosidade do ambiente e controlar o acionamento de luzes**

Maquete eléctrica



```
1  int pinoLDR = A0;
2
3  int pinoLED1 = 9;
4  int pinoLED2 = 10;
5  int pinoLED3 = 11;
6  int pinoLED4 = 12;
7  int pinoLED5 = 7;
8  int pinoLED6 = 8;
9  int pinoLED7 = 6;
10
11 int limiteLuz = 300;
12
13 void setup(){
14
15     pinMode(pinoLED1, OUTPUT);
16     pinMode(pinoLED2, OUTPUT);
17     pinMode(pinoLED3, OUTPUT);
18     pinMode(pinoLED4, OUTPUT);
19     pinMode(pinoLED5, OUTPUT);
20     pinMode(pinoLED6, OUTPUT);
21     pinMode(pinoLED7, OUTPUT);
22
23 }
```

```
1  void loop(){
2
3     int valorLuz = analogRead(pinoLDR);
4
5     if (valorLuz < limiteLuz){
6
7         digitalWrite(pinoLED1, HIGH);
8         digitalWrite(pinoLED2, HIGH);
9         digitalWrite(pinoLED3, HIGH);
10        digitalWrite(pinoLED4, HIGH);
11        digitalWrite(pinoLED5, HIGH);
12        digitalWrite(pinoLED6, HIGH);
13        digitalWrite(pinoLED7, HIGH);
14
15    } else{
16
17        digitalWrite(pinoLED1, LOW);
18        digitalWrite(pinoLED2, LOW);
19        digitalWrite(pinoLED3, LOW);
20        digitalWrite(pinoLED4, LOW);
21        digitalWrite(pinoLED5, LOW);
22        digitalWrite(pinoLED6, LOW);
23        digitalWrite(pinoLED7, LOW);
24
25    }
26
27    delay(100);
28 }
```



Fim ☺