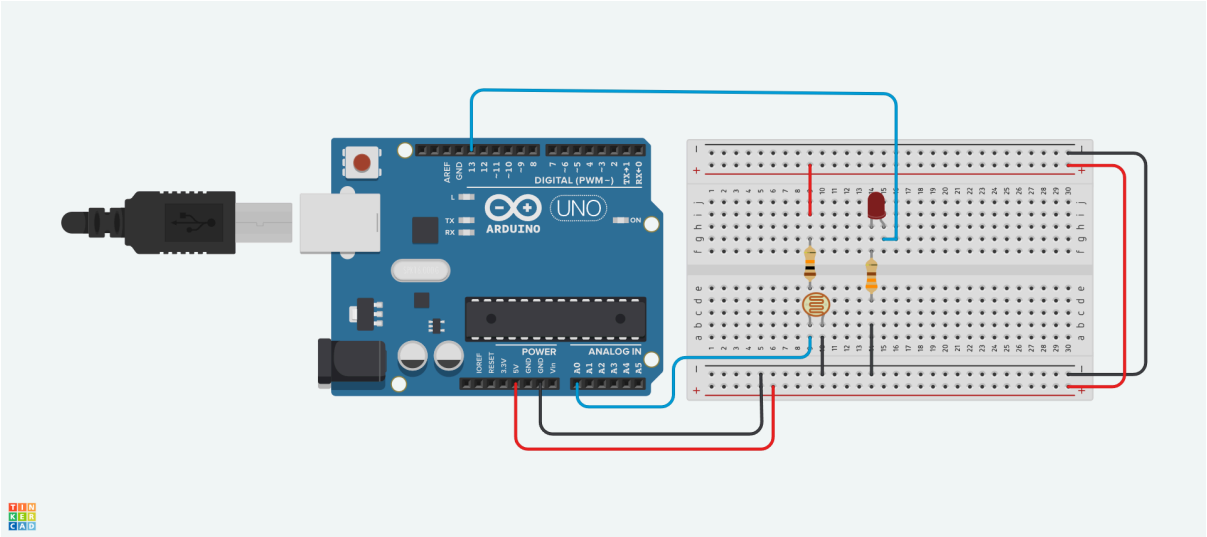
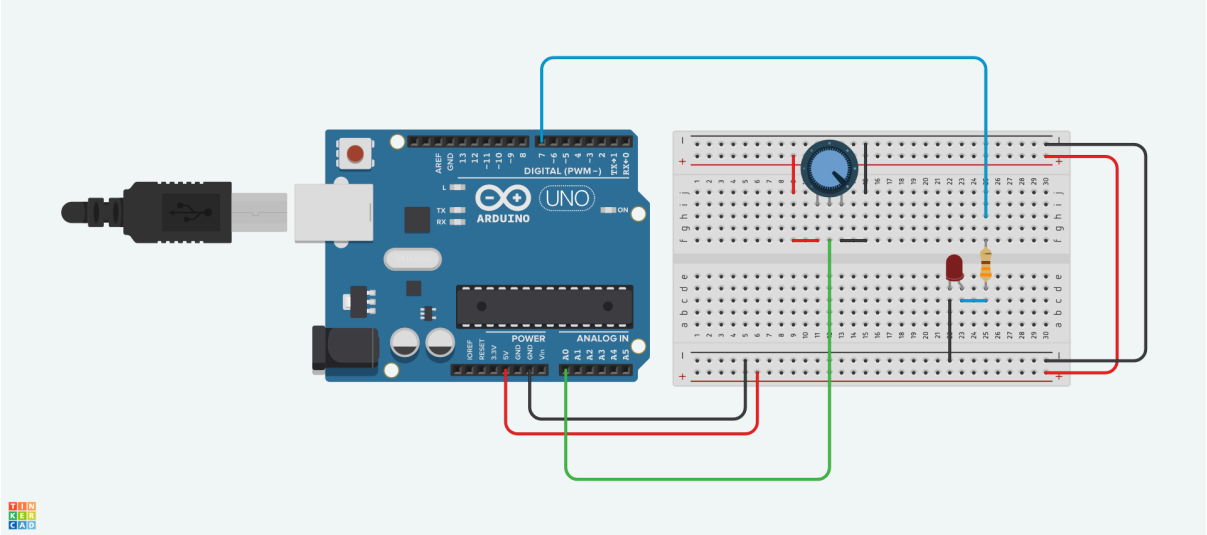
Projeto Arduino, Fotoresistor 1




```
//Exemplo 4  - Sensor de Luz LDR
// Apostila Eletrogate - KIT START

#define AnalogLDR A0
#define Limiar 1.5
#define LedPin 13

int Leitura = 0;
float VoltageLDR;
float ResLDR;

void setup()
{
  pinMode(LedPin, OUTPUT);
  Serial.begin(9600);
  delay(100);
}

void loop()
{
  Leitura = analogRead(AnalogLDR);
  VoltageLDR = Leitura * (5.0/1024);
  Serial.print("Leitura sensor LDR = ");
  Serial.println(VoltageLDR);

  if(VoltageLDR > Limiar)
    digitalWrite(LedPin, HIGH);
```

```
  else
    digitalWrite(LedPin, LOW);
  delay(500);
}
```

Projeto Arduino, Fotoresistor 2




```
#define sensorPin A0

int sensorValue = 0;
int ledred = 7;
float voltage;

void setup()
{
  pinMode(ledred, OUTPUT);
  Serial.begin(9600);
  delay(100);
}

void loop()
{
  sensorValue = analogRead(sensorPin);
  voltage = sensorValue * (5.0/1024);

  Serial.print("Tensão do potenciometro: ");
  Serial.print(voltage);
  Serial.print("    Valor: ");
  Serial.println(sensorValue);
  delay(500);

  if(voltage <= 0)
```

```
    digitalWrite(ledred, LOW);
  else
    digitalWrite(ledred, HIGH);
}
```