

PROJETO MENINAS NA ENGENHARIA

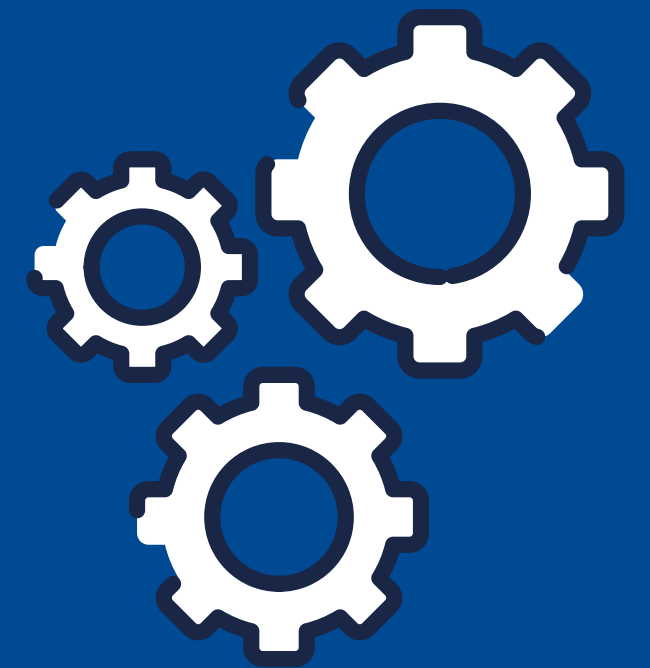
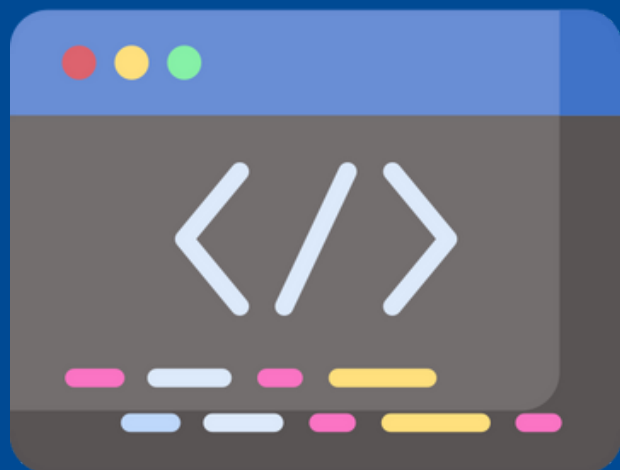
AULA 3

ELETRÔNICA



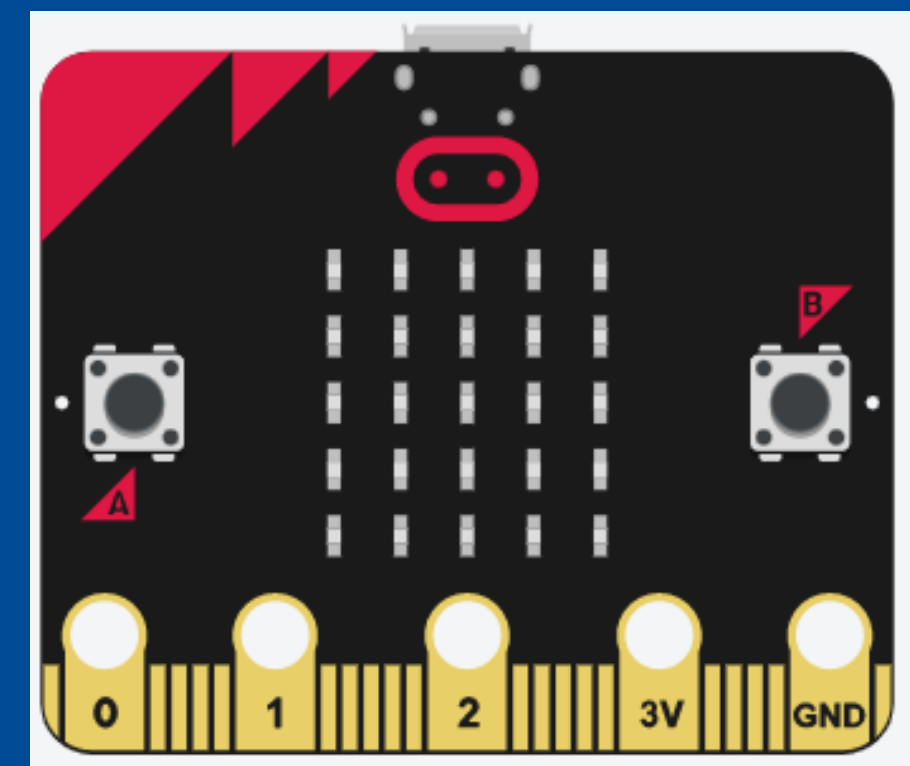
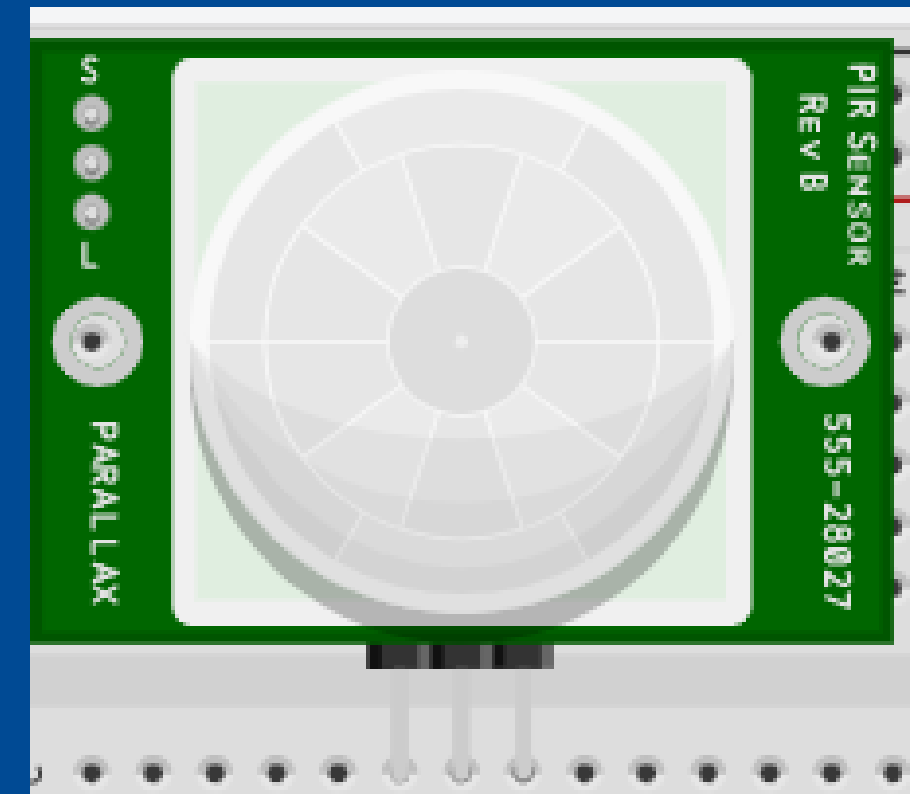
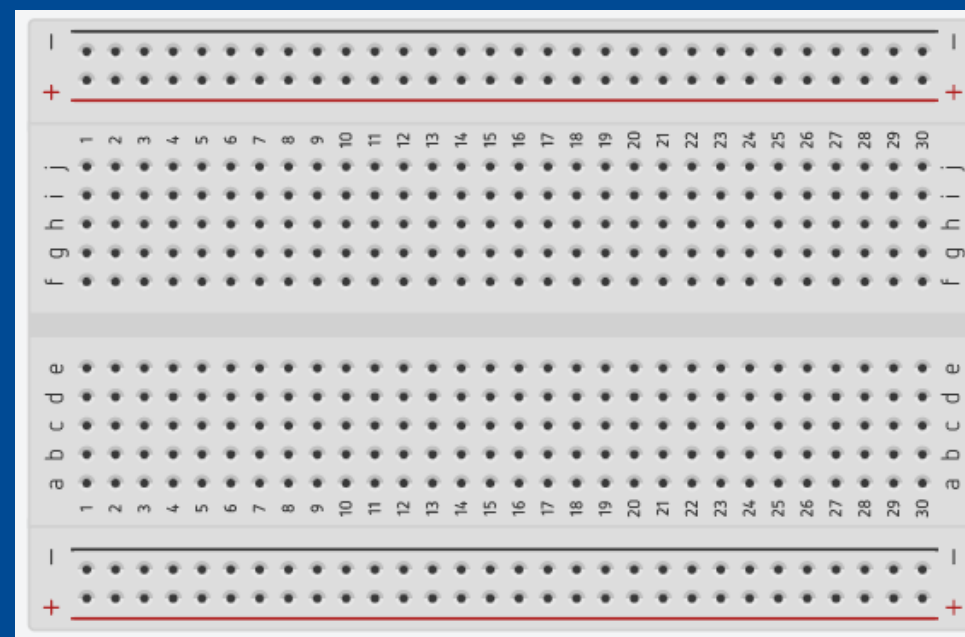
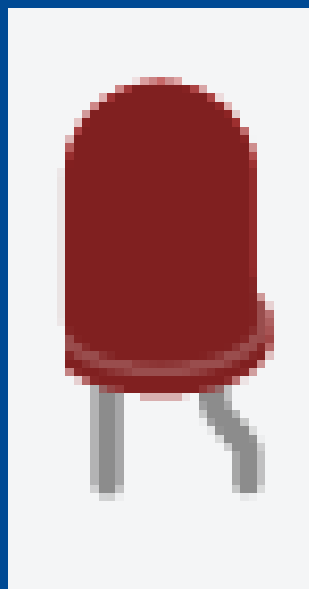
Principais Atividades

- Criação de uma turma no Google Classroom;
- Continuar o uso do TinkerCAD;
- Programar um novo circuito.

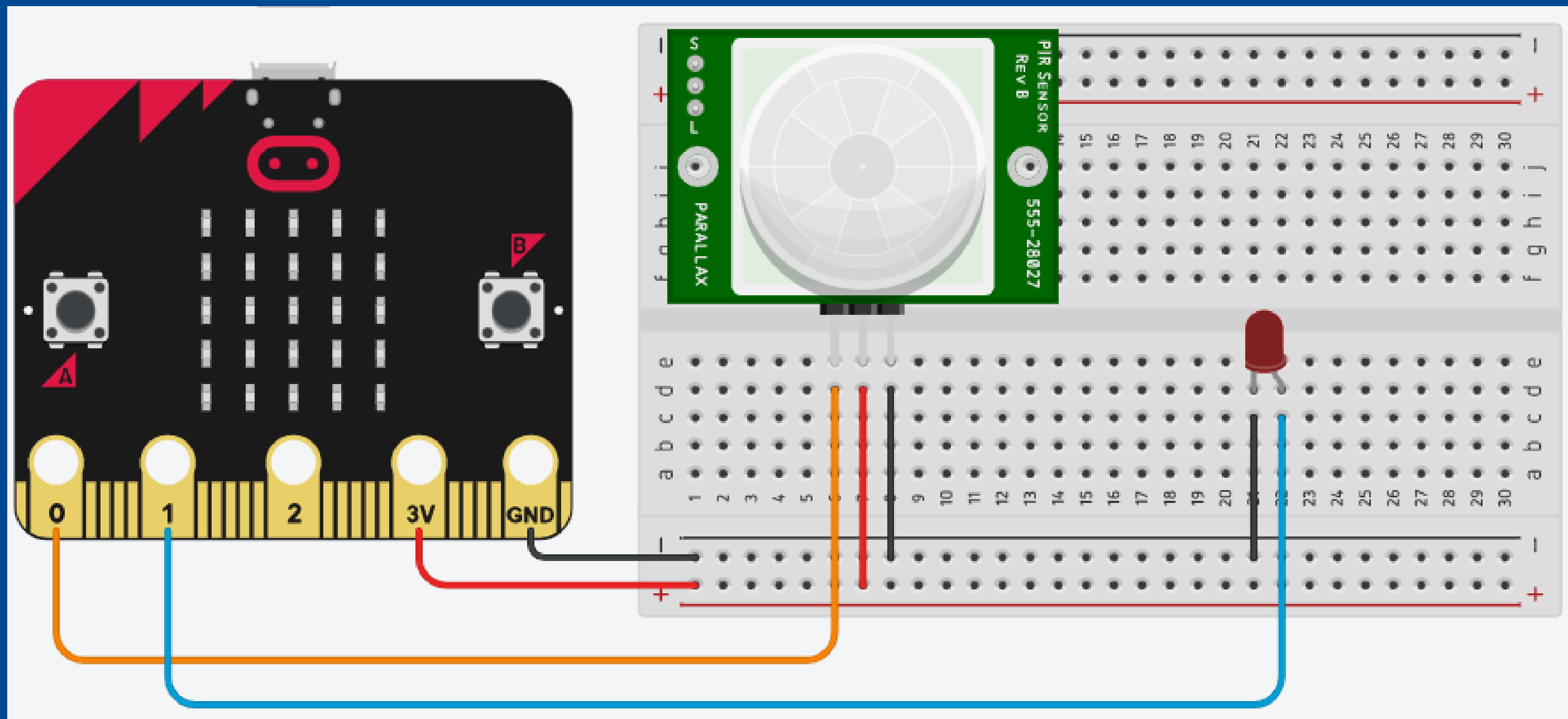


Usando Tinkercad

- Lista de Componentes:
 - LED
 - PIR
 - Placa de ensaio pequena
 - Micro:bit



Circuito: LED e Sensor PIR

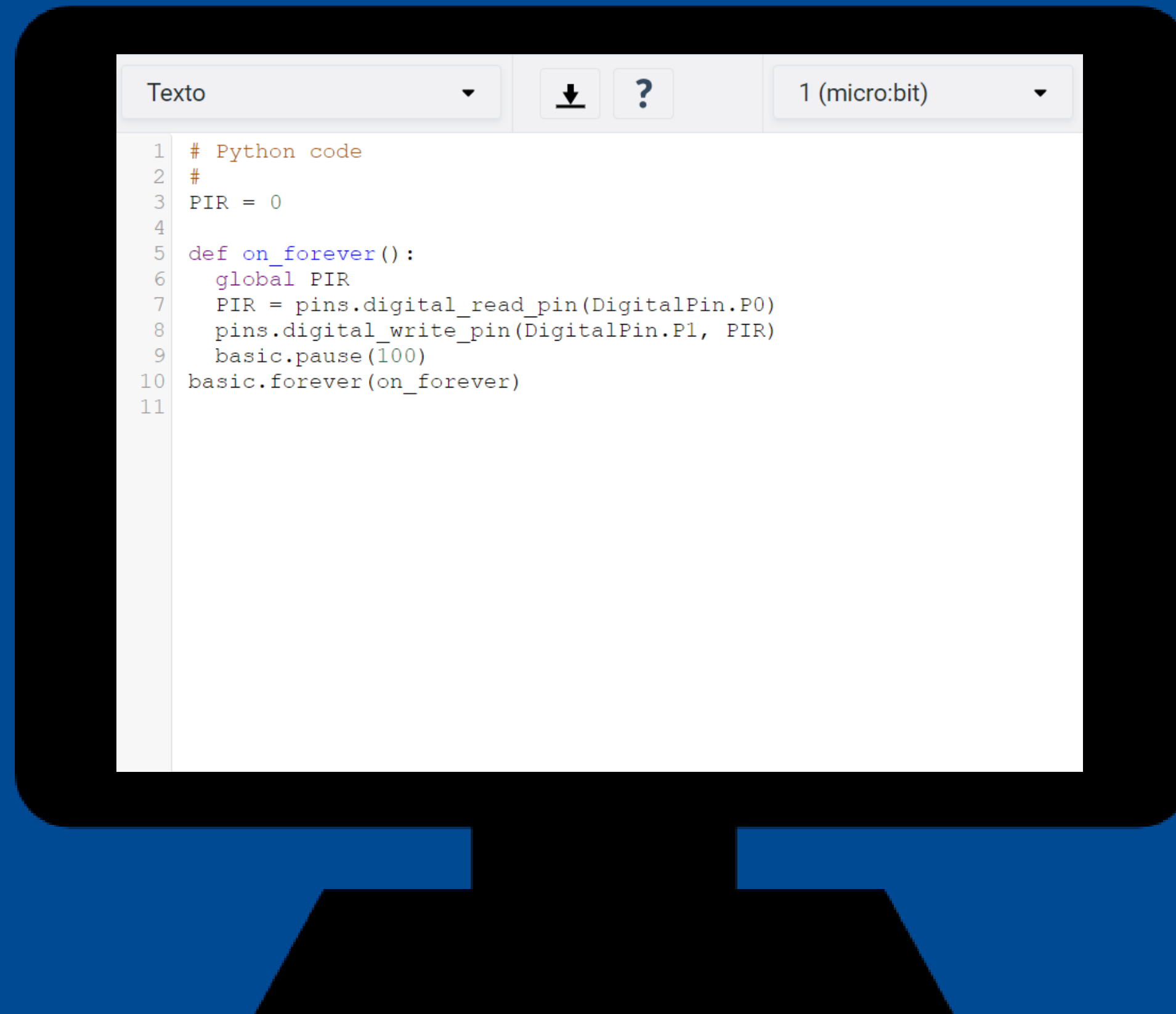


Atividade 1

Escreva um código em Python para acender o LED quando o sensor PIR detectar algum movimento.



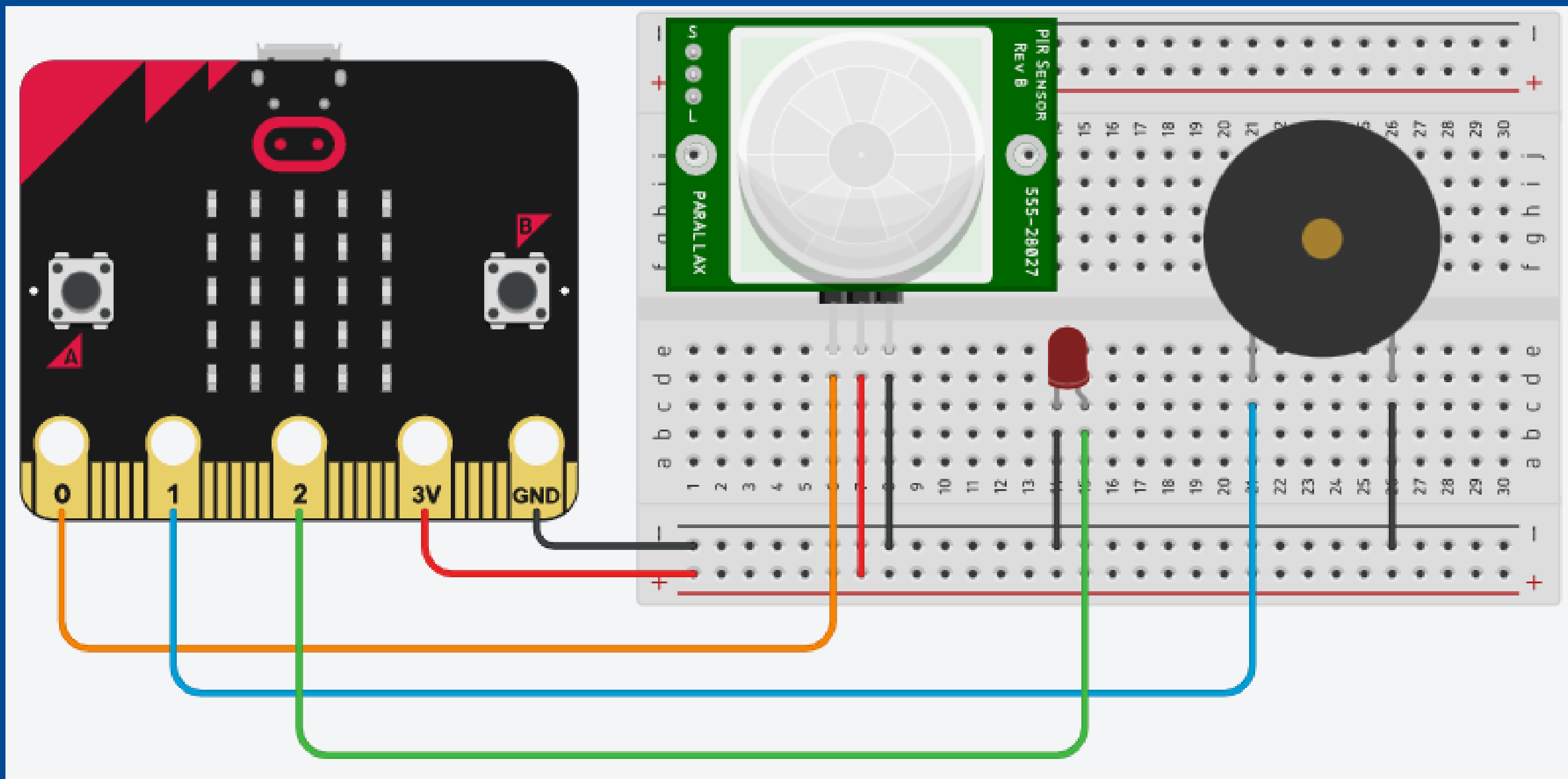
Resposta da atividade 1



Circuito: LED e Sensor PIR

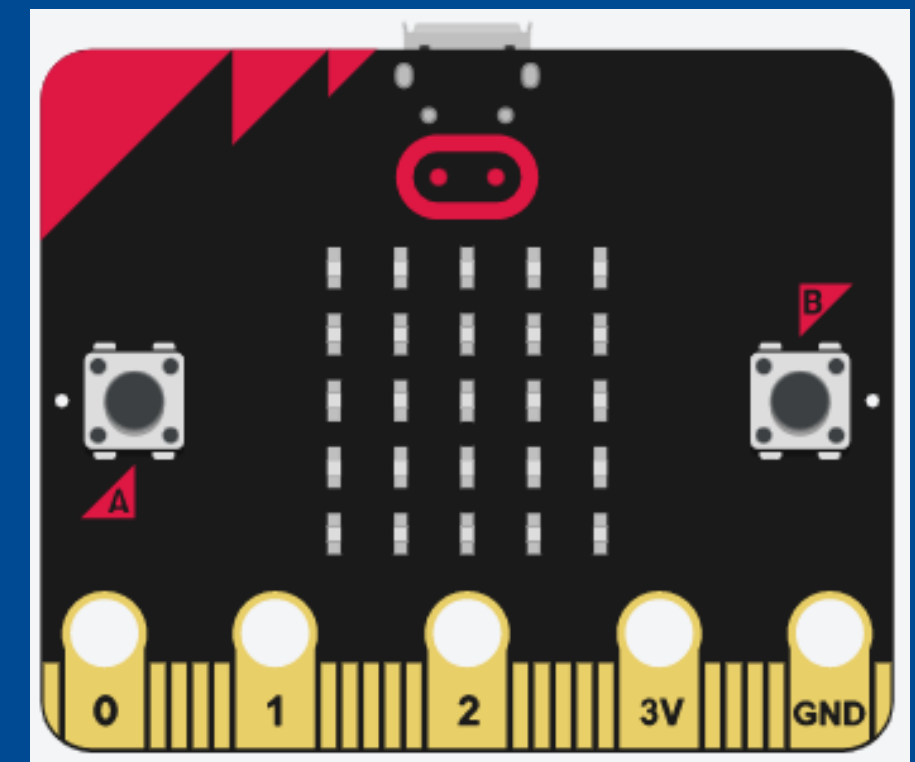
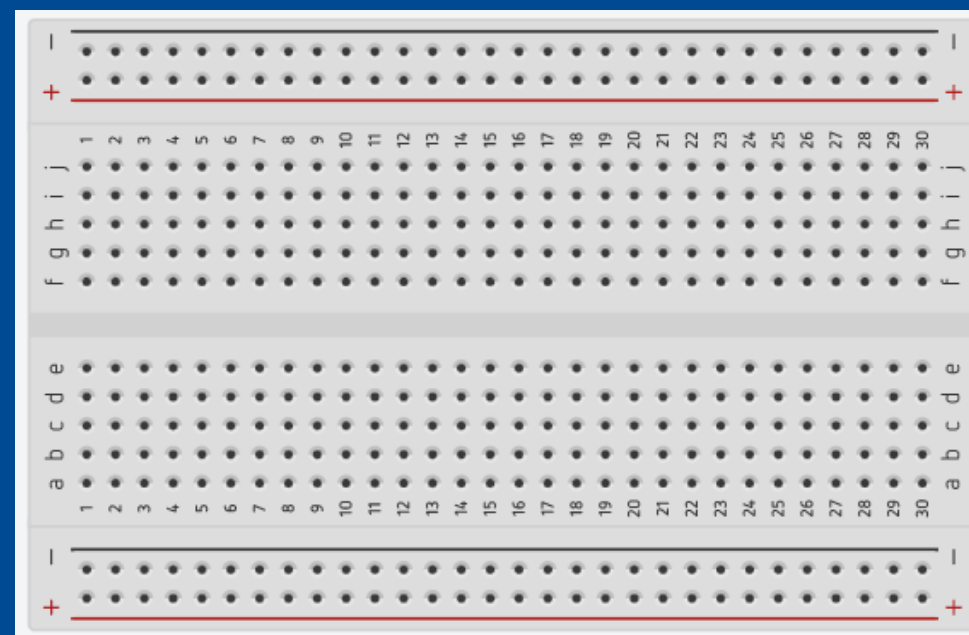
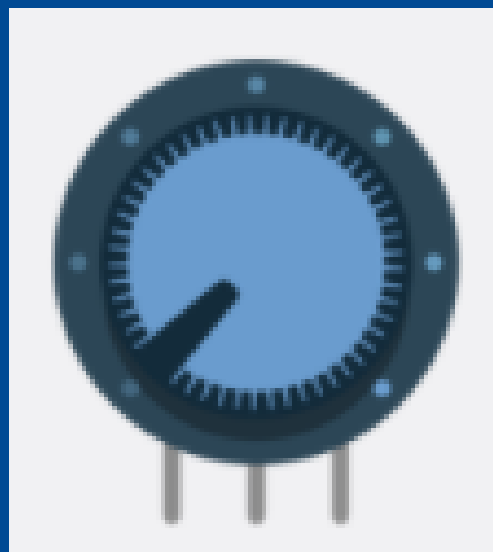
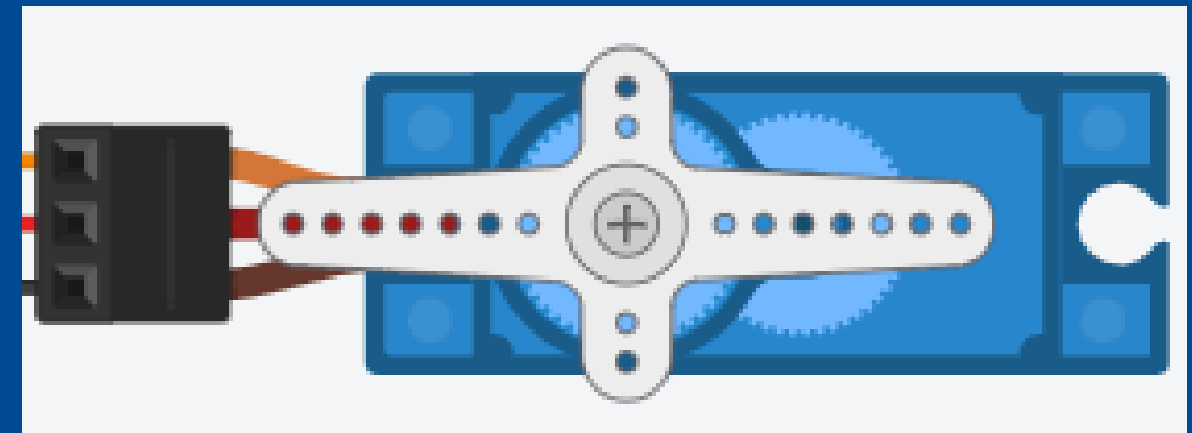
Desafio: E se adicionássemos um piezo ao circuito?
Como faríamos a programação para o LED acender e o piezo tocar quando o sensor PIR detectar algum movimento?

Circuito: LED, Sensor PIR e Piezo



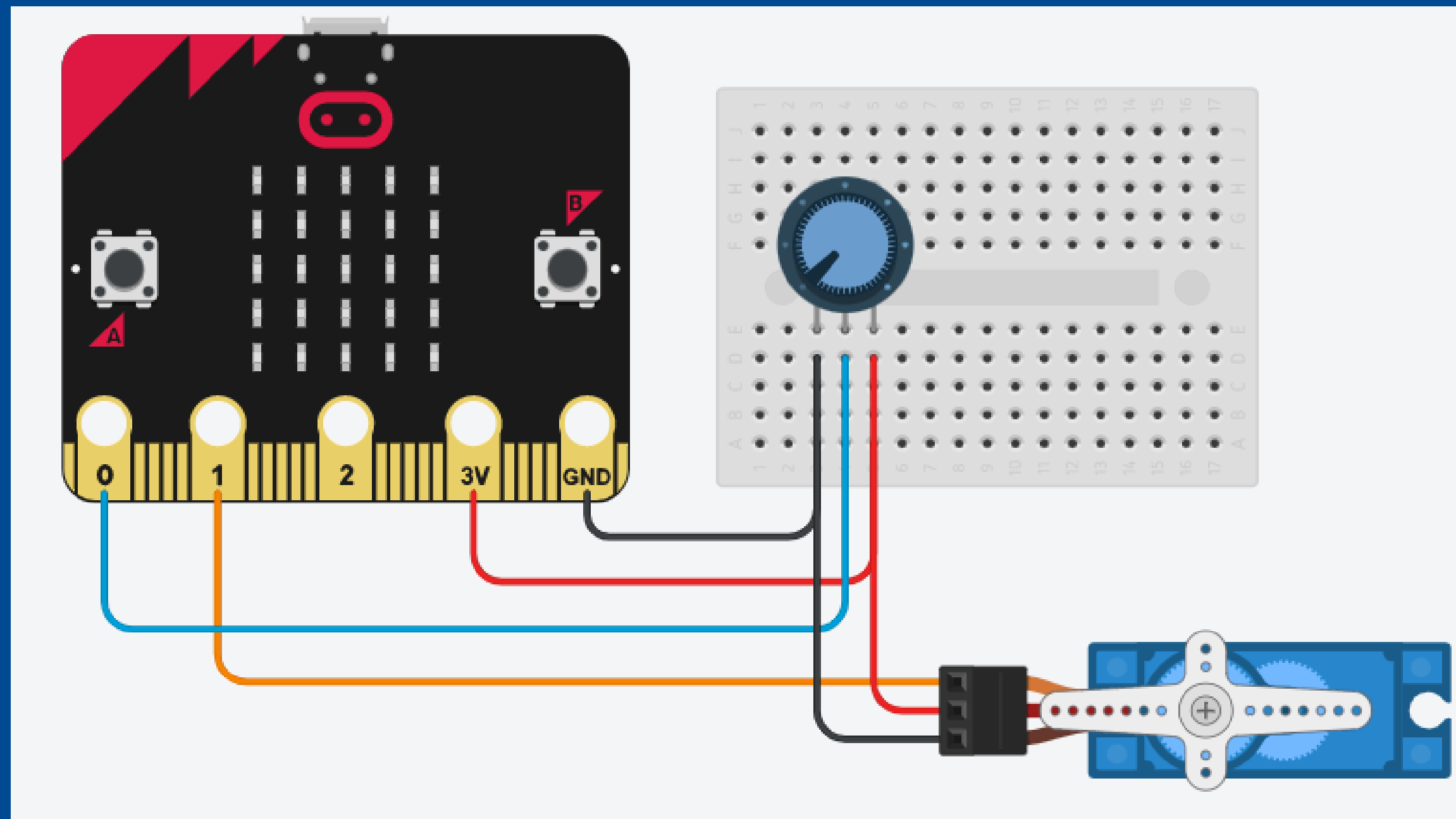
Usando Tinkercad

- Lista de Componentes:
 - Micro servo
 - Potênciometro
 - Micro:bit
 - Placa de ensaio pequena



Circuito: Controlando Micro

Servo

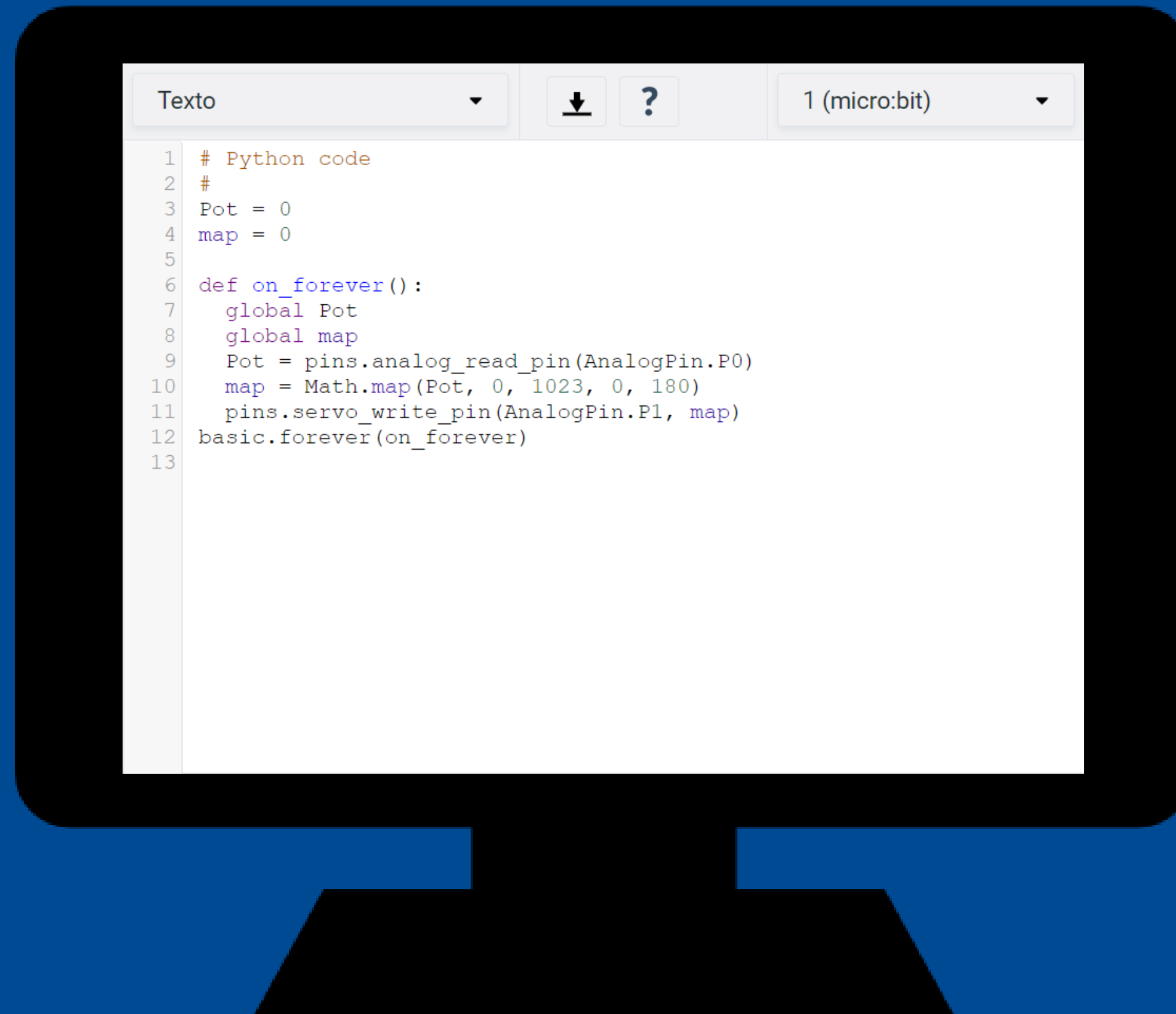


Atividade 2

Escreva um código em Python para controlar a hélice do Micro Servo com o potenciômetro.



Resposta da atividade 2



Obrigada!

