Example – Turning on or off an LED
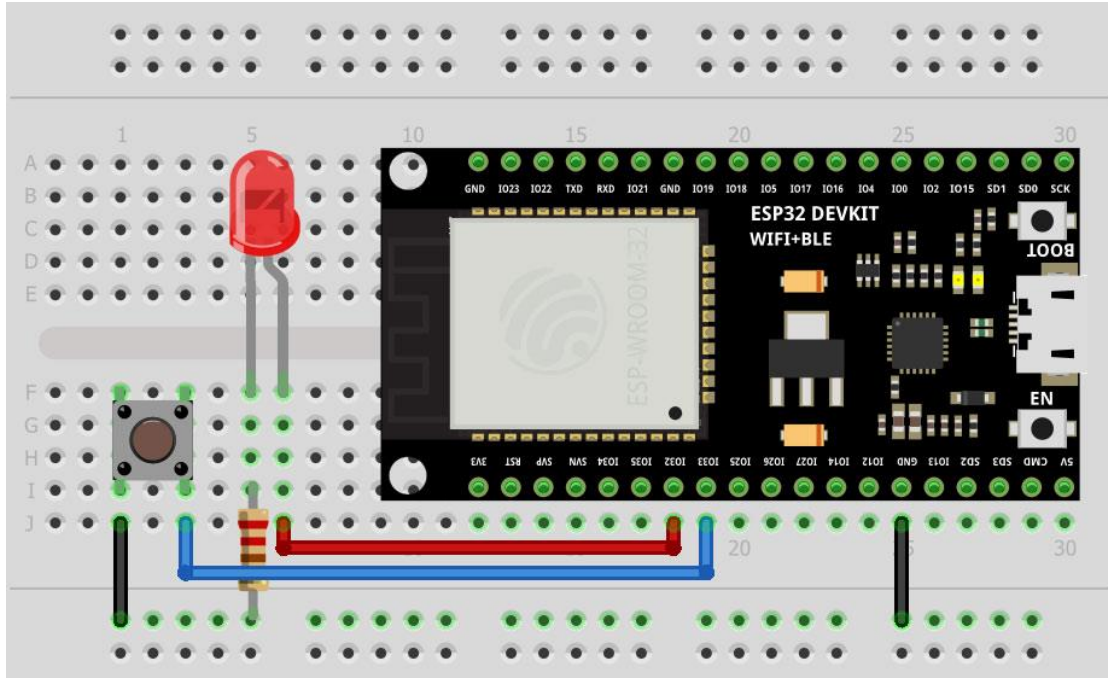
we will turn on and off an LED with a push-button switch. But instead of using polling, we will be using the GPIO interrupt.
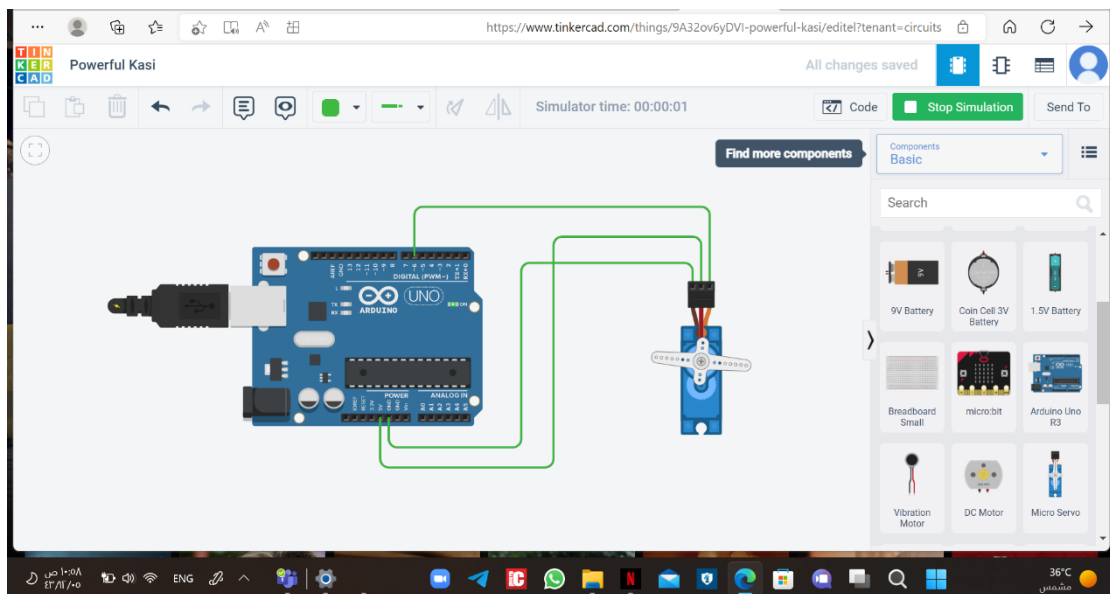

CODE:

```
#define pushButton_pin   33

#define LED_pin   32

void IRAM_ATTR toggleLED()

{

  digitalWrite(LED_pin, !digitalRead(LED_pin));

}

void setup()

{

  pinMode(LED_pin, OUTPUT);

  pinMode(pushButton_pin, INPUT_PULLUP);

  attachInterrupt(pushButton_pin, toggleLED, RISING);

}

void loop()

{

}
```

servo motor

CODE:

```
#include <Servo.h>

Servo myservo;

int pos = 0;
void setup() {
  myservo.attach(6);
}

void loop() {
  for (pos = 0; pos <= 180; pos += 1) {
    myservo.write(pos);
    delay(15);
  }
  for (pos = 0; pos <= 180; pos -= 1) {
    myservo.write(pos);
    delay(15);
  }
}
```

Circuit:

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