



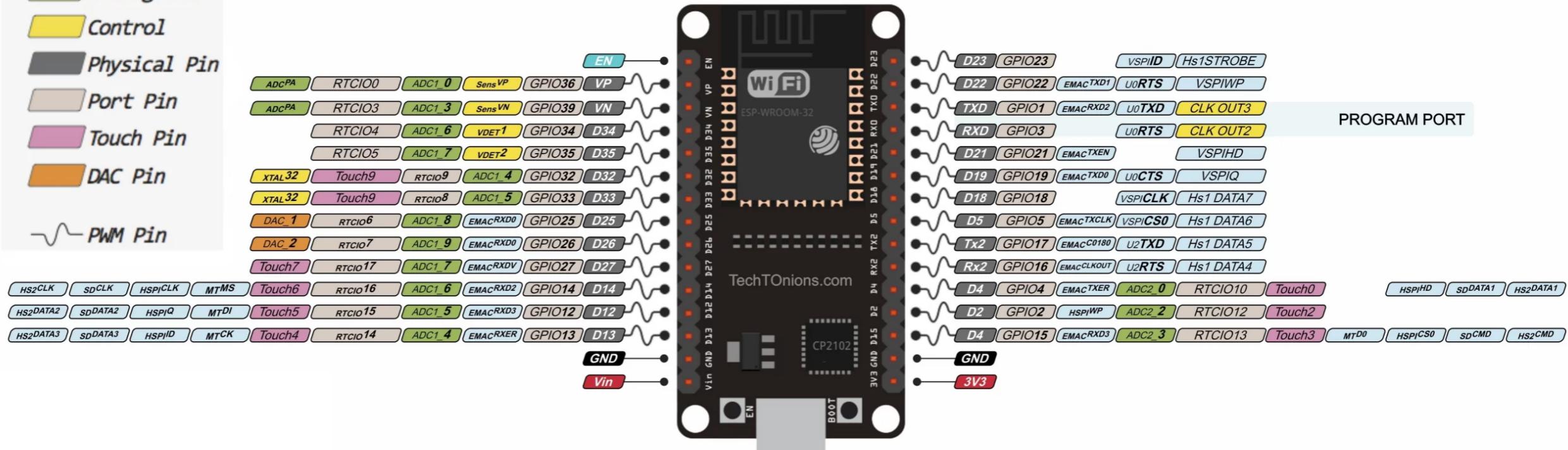
Input / Output

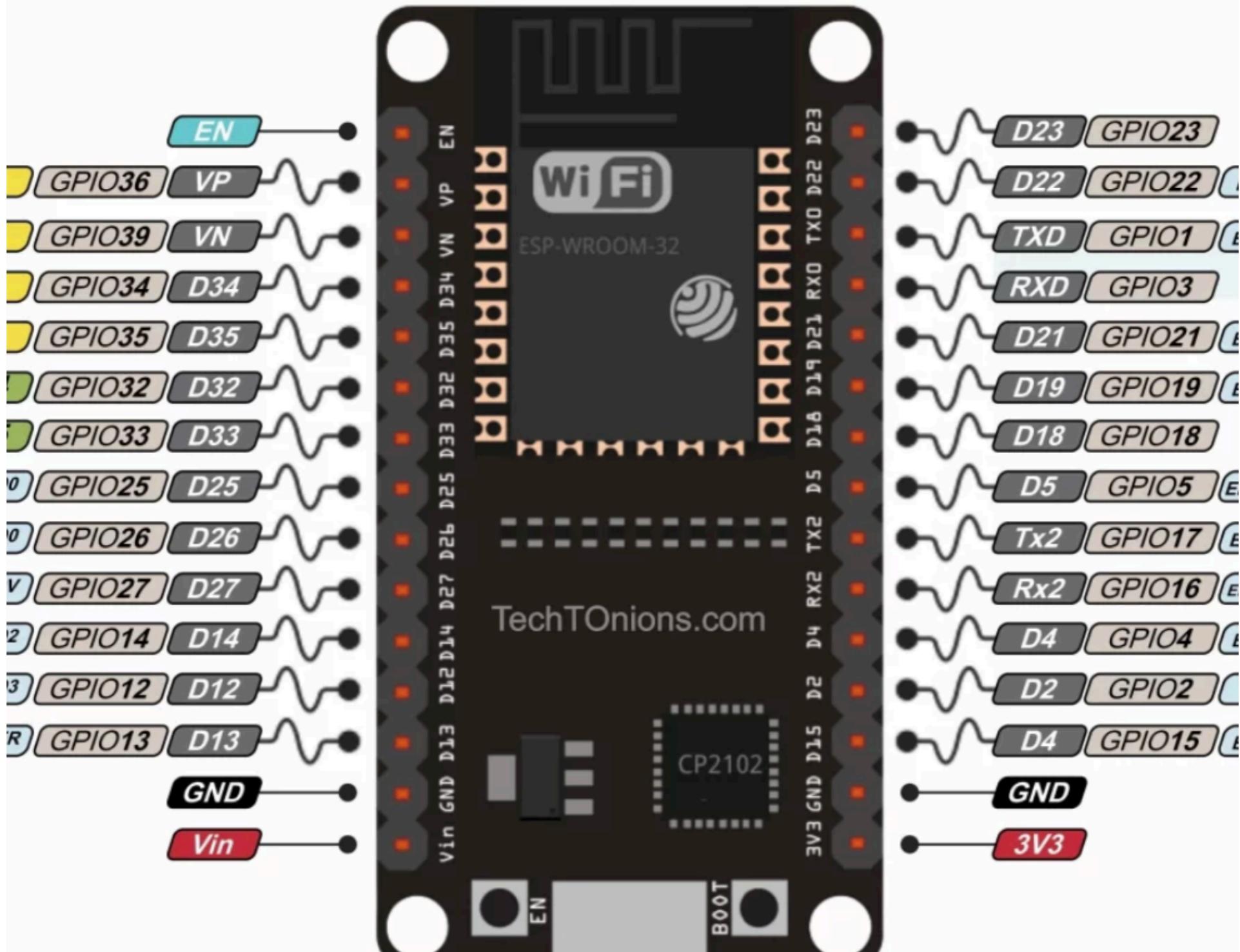
Micro-python - IoT

ESP32-WROOM-DA

DEVELOPMENT BOARD

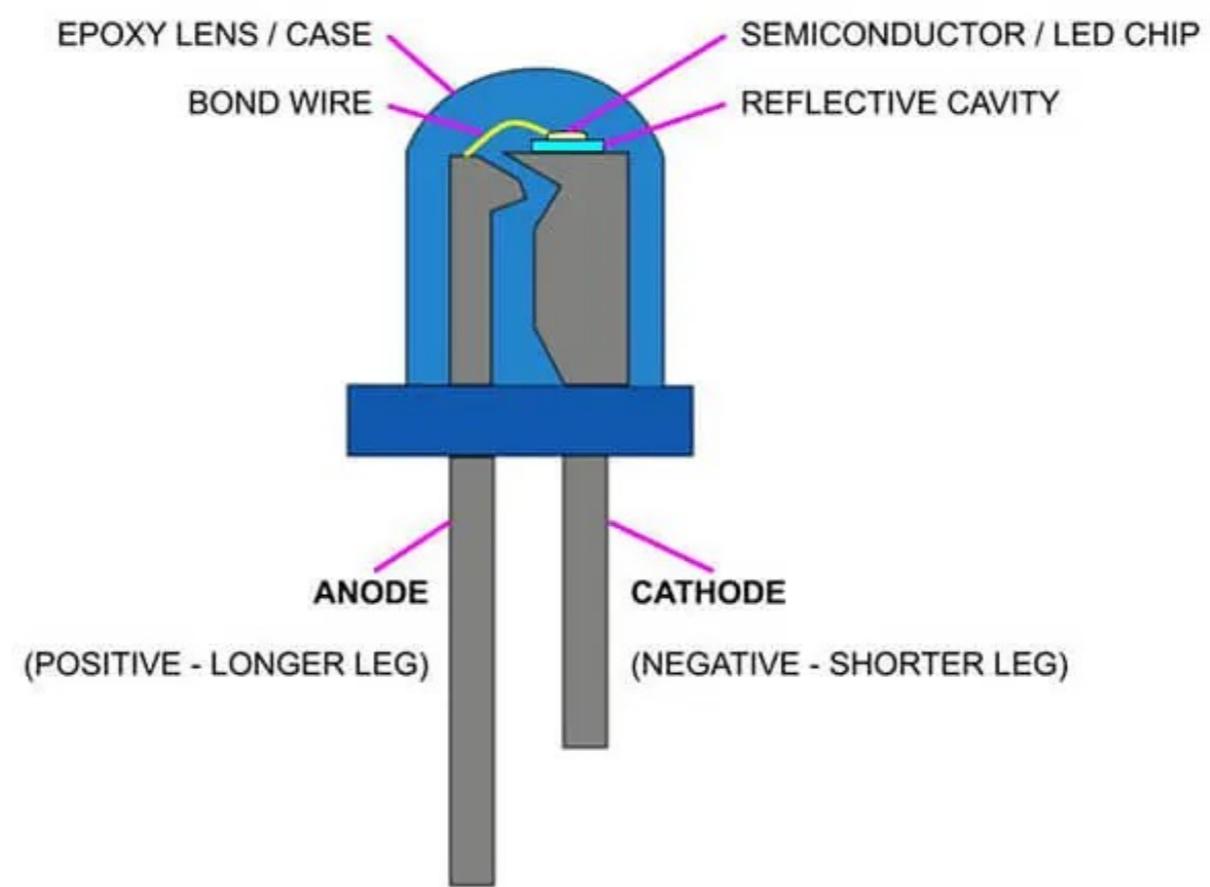
PINOUT





LED

LIGHT EMITTING DIODE



Sample code

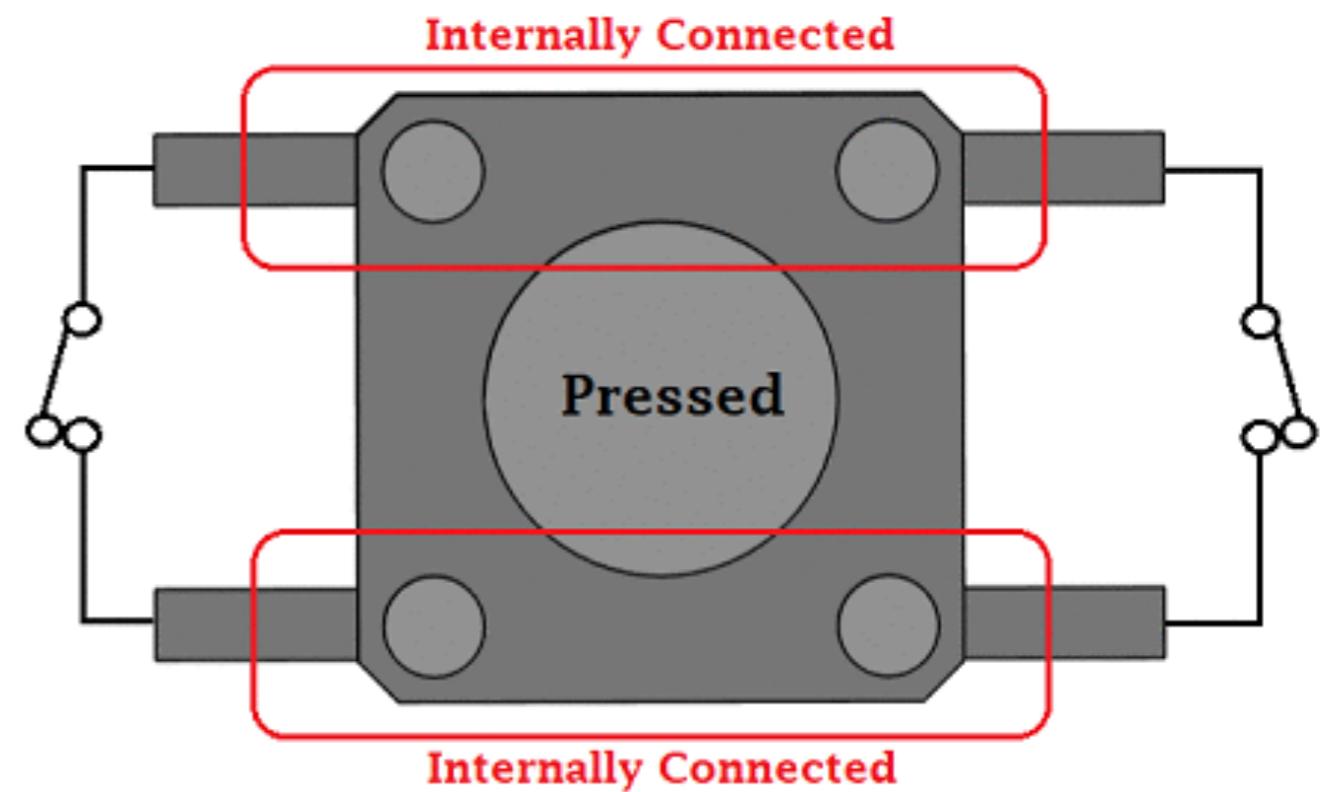
```
from machine import Pin  
from time import sleep  
  
led = Pin(2, Pin.OUT)  
led.value(1)
```

variable = Pin(<port number> , <IN or OUT>) is to get one Pin object from ESP32

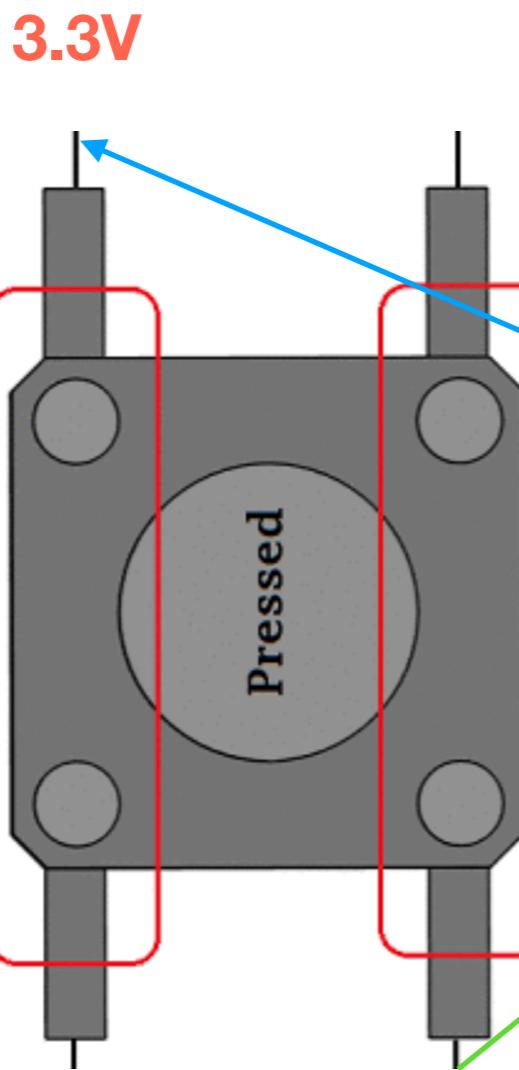
- OUT : Control the pin as output (control on/off)
- IN : Get data from sensor

led.value(1) : set value 1 into the Pin (ON)
led.value(0) : set value 0 into the Pin (OFF)

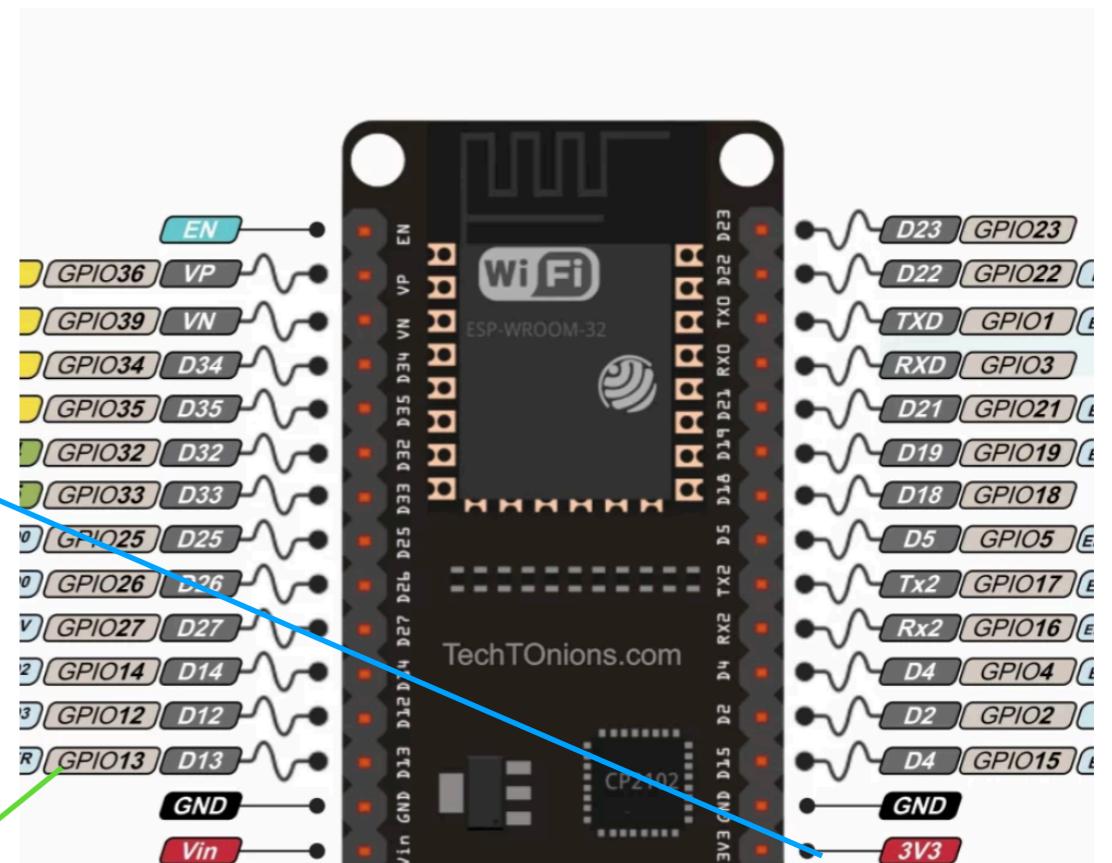
Push Button Switch



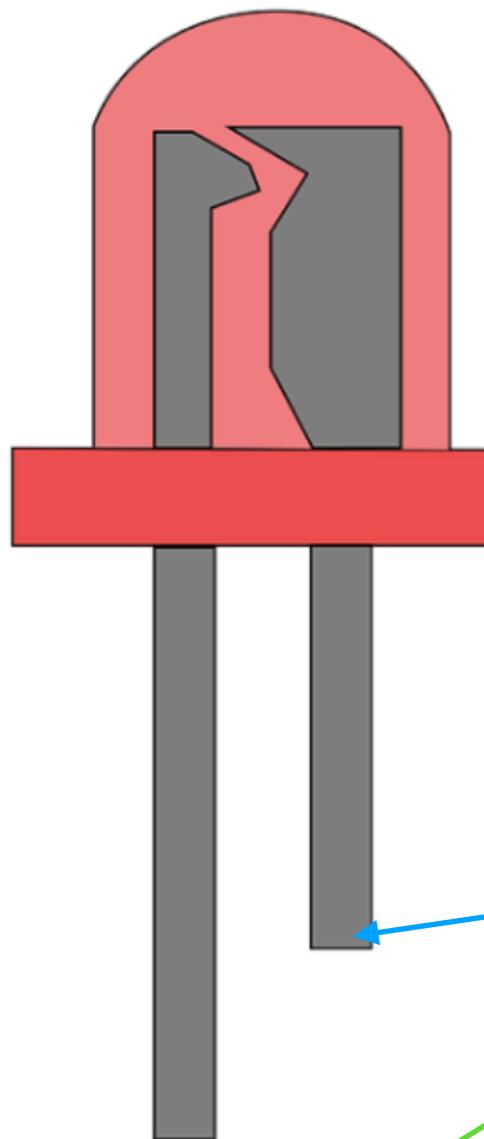
Circuit Diagram



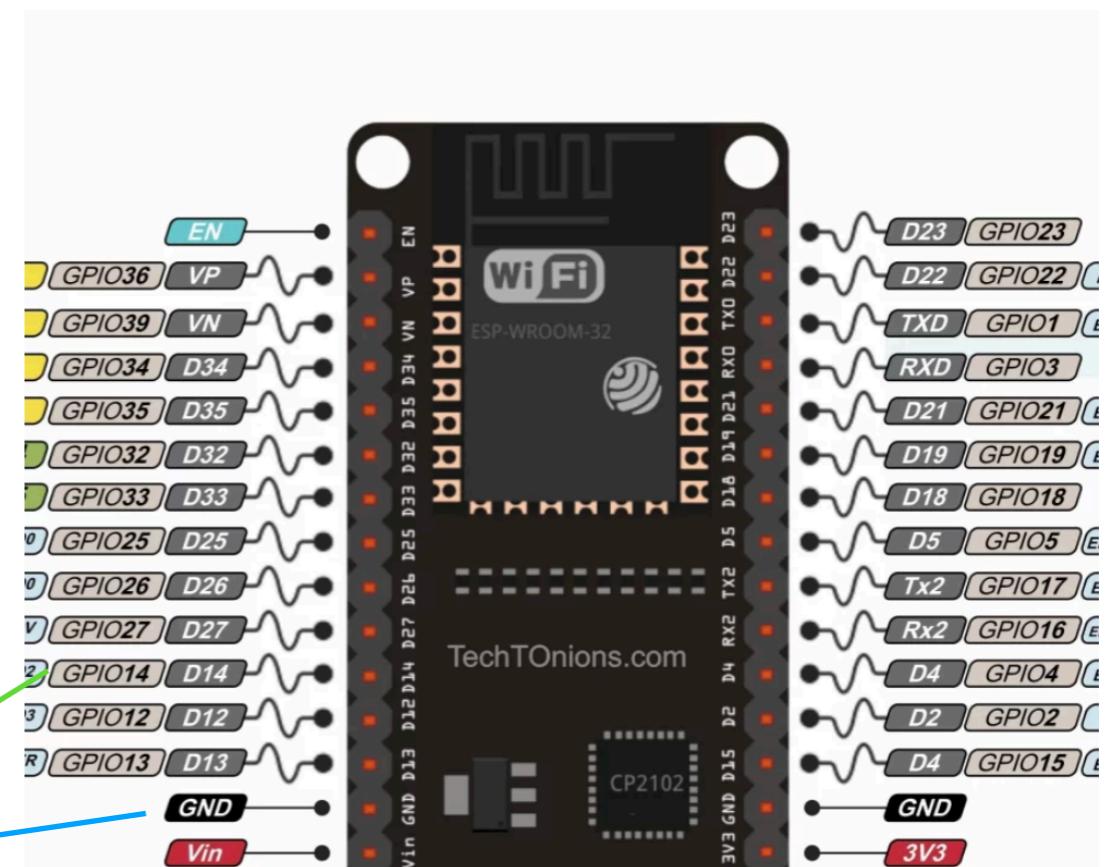
GPIO 13



LED Diagram

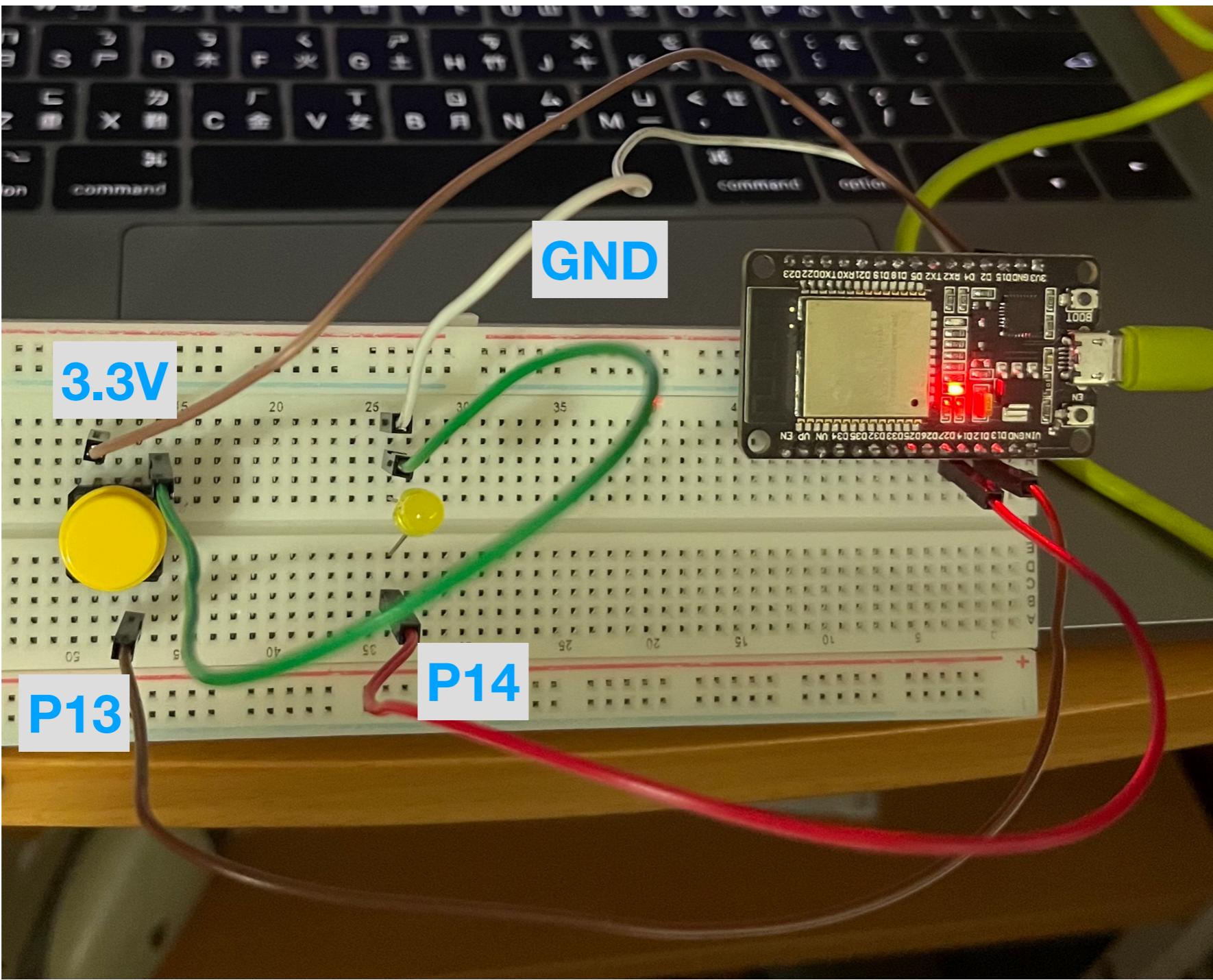


GND (Ground)



GPIO 14

Complete Circuit



Code

- Press the button will switch on the LED
- Release will switch off the LED

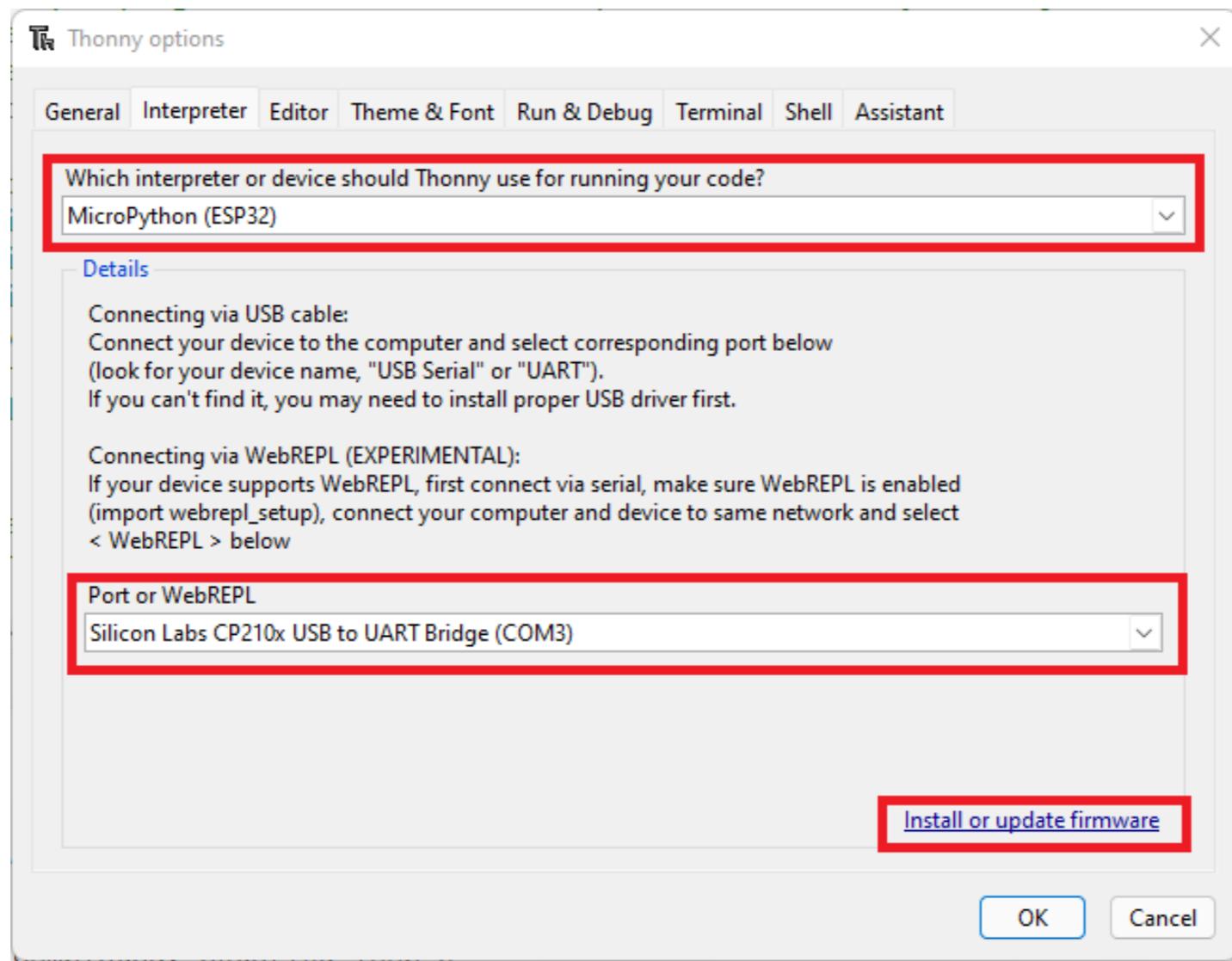
```
from machine import Pin

led = Pin(14, Pin.OUT)
button = Pin(13, Pin.IN)

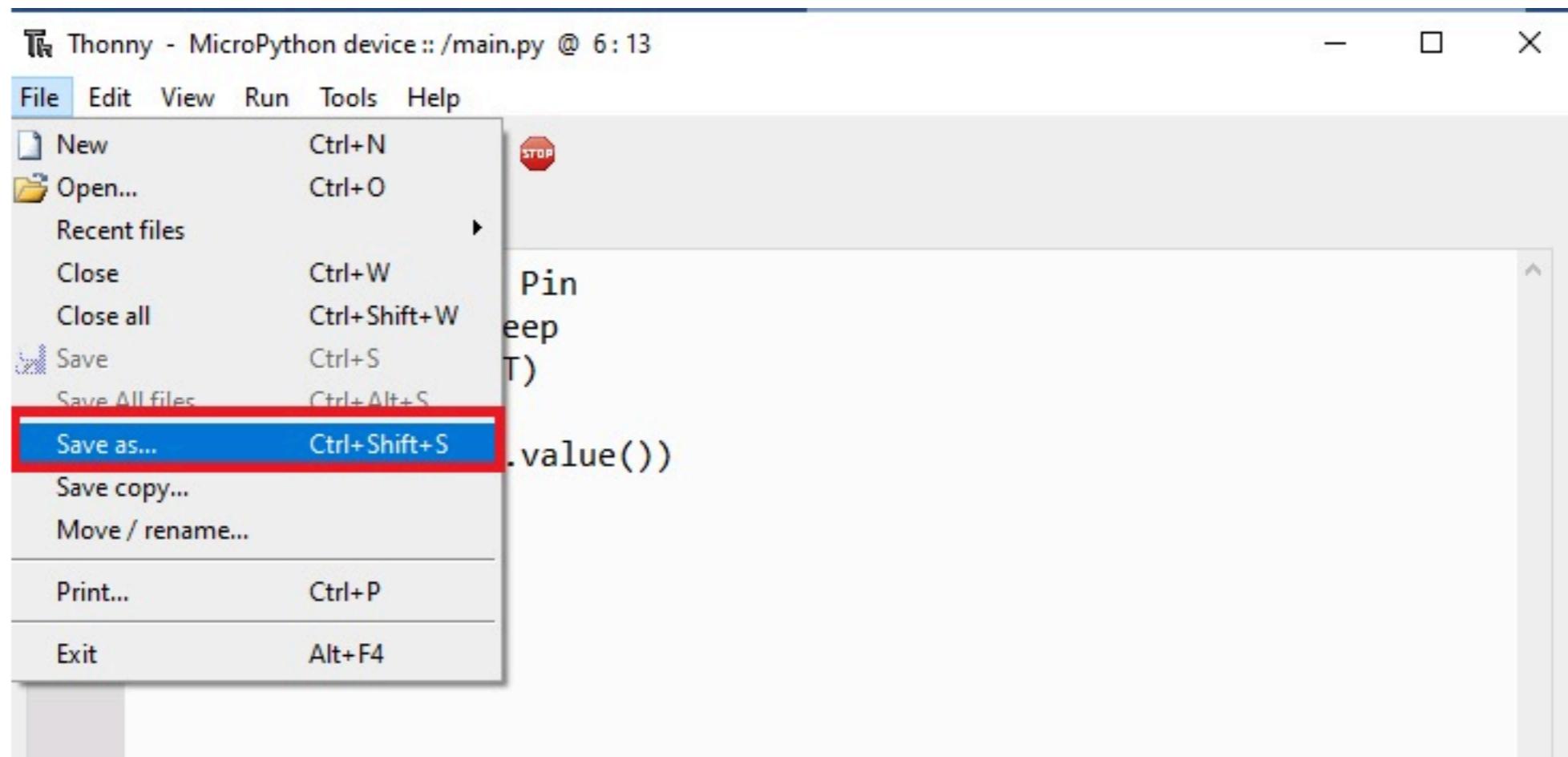
while True:
    is_pressed = button.value()
    if (is_pressed == True):
        led.value(1)
    else:
        led.value(0)
```

Upload / Burn Firmware

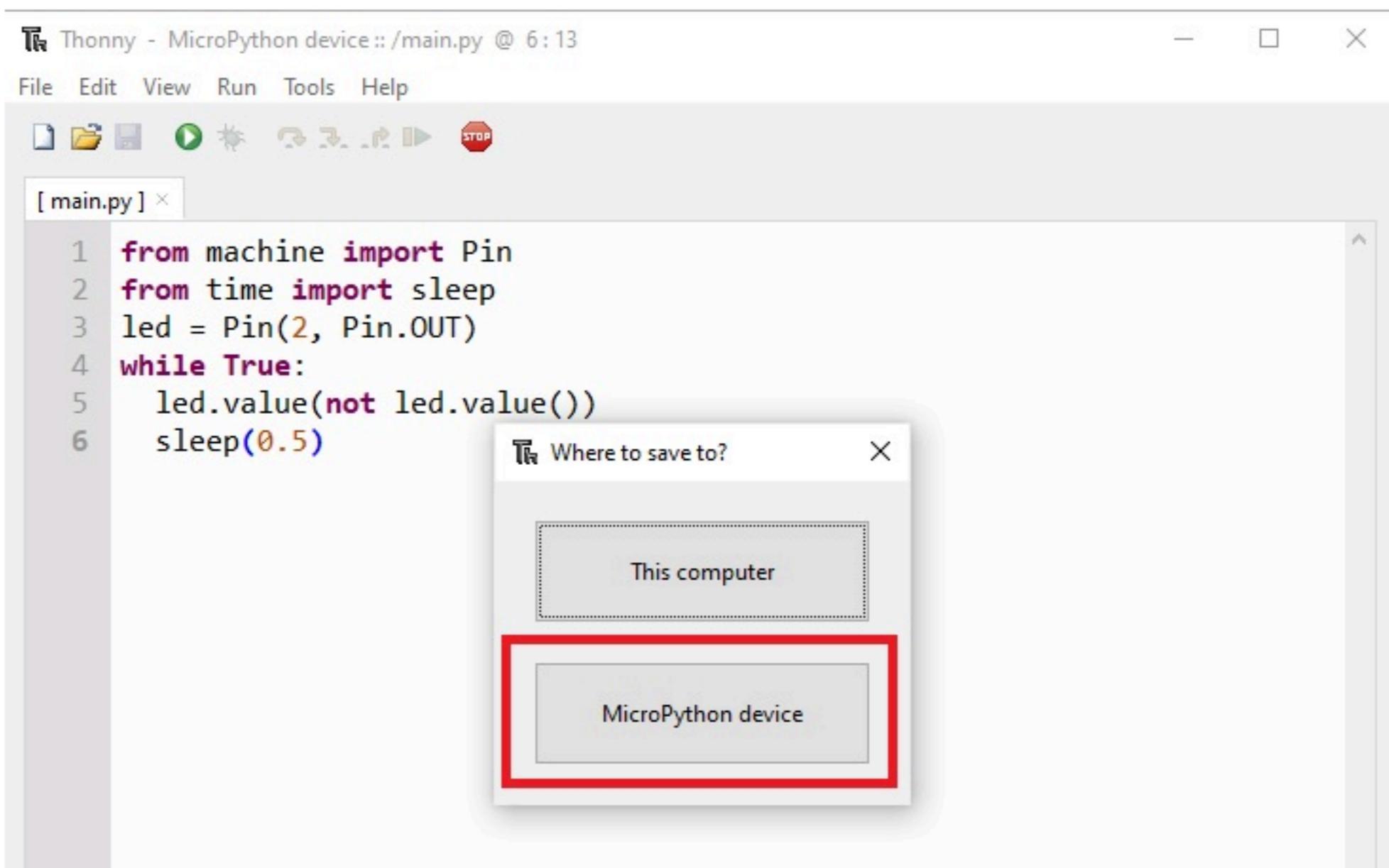
- Menu Tools -> Options



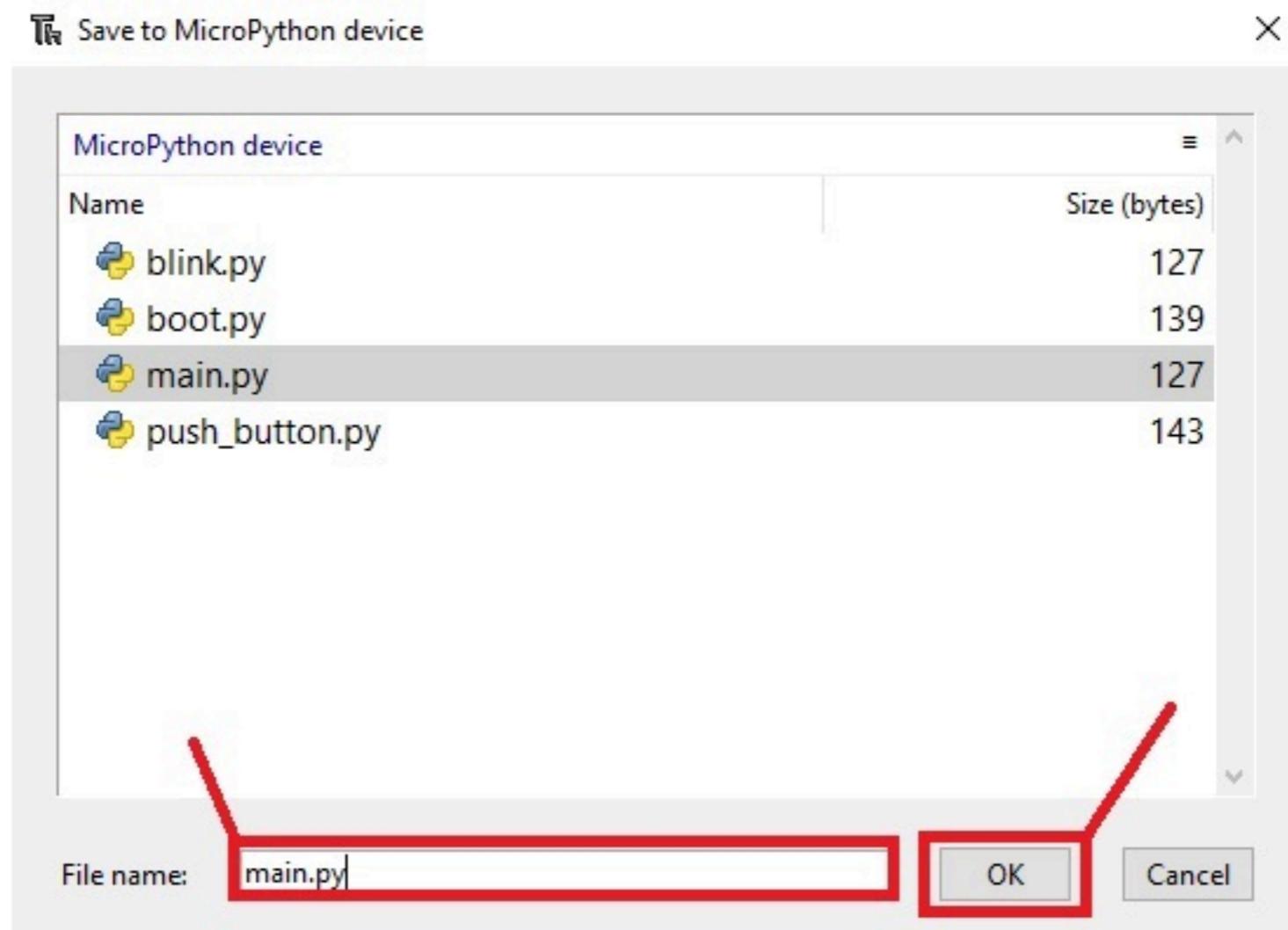
Upload Code



Upload Code



Upload Code



Upload Code

Press Enable/Reset
Button

