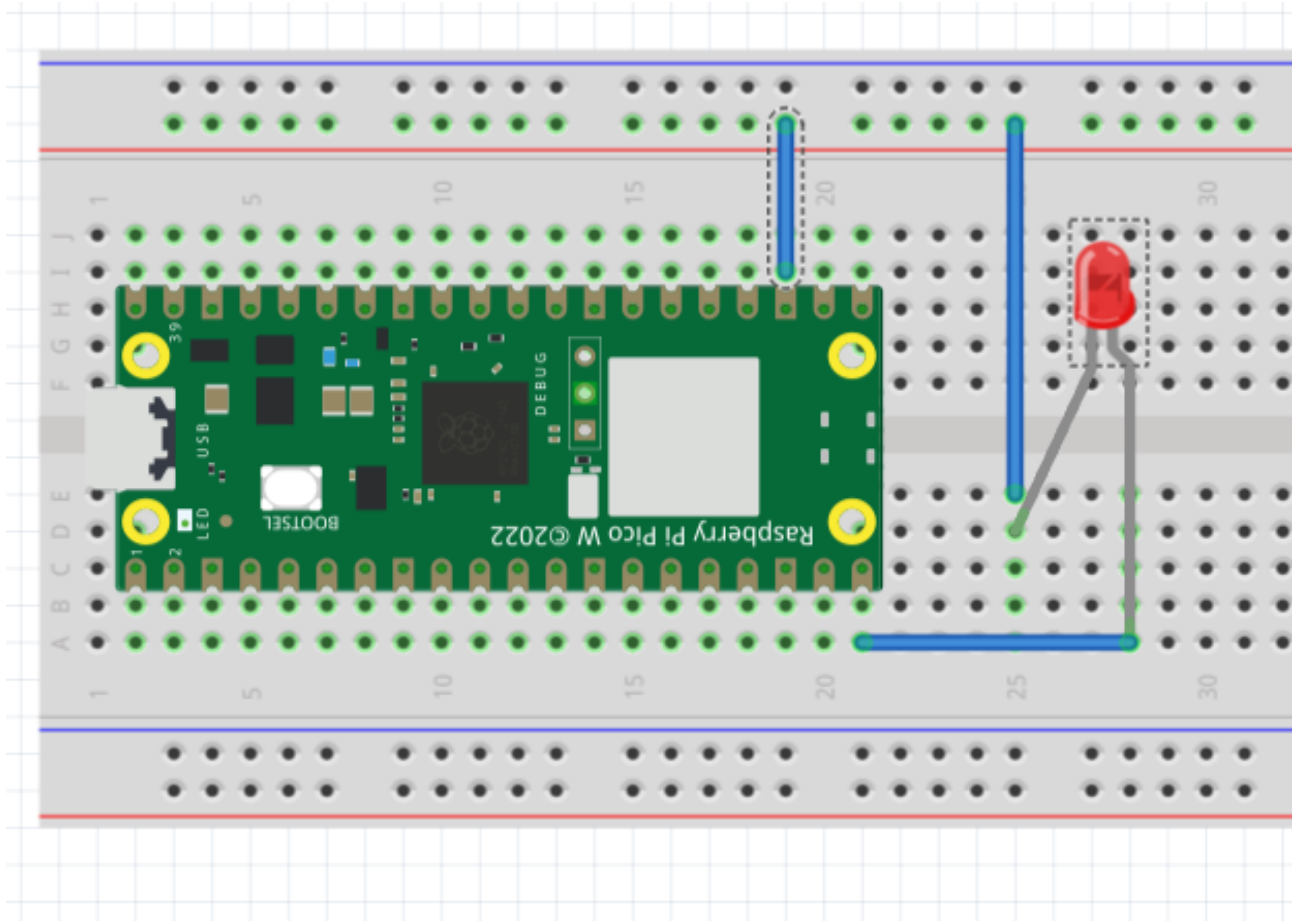


LESSON 2

Control an External LED with Raspberry Pi Pico W

Student Guide



Lesson Objective

Learn how Python code can control a physical LED connected to the Raspberry Pi Pico W.

Python Code	↓
Raspberry Pi Pico W	↓
Physical Action	↓
LED connected to GP15 blinks	

Hardware Setup

Connect the external LED to **GP15** as shown in the diagram. The Pico W sends a signal through GP15 to control the LED.

Python Code

File name: lesson2.py

```
from picozero import LED

led = LED(15)

led.blink()
```

Understanding the Code

Code	Meaning
<code>from picozero import LED</code>	Imports LED from the PicoZero library.
<code>led = LED(15)</code>	Creates an LED called led . The number 15 means the LED is connected to GP15 .
<code>led.blink()</code>	Tells the LED to blink continuously.

In simple words: Use an LED connected to GP15 and make it blink.

What Happens?

The LED repeatedly turns **ON** and **OFF**: **ON** → **OFF** → **ON** → **OFF** → **repeat**.

Try These Commands

`led.on()` - turns the LED ON.

`led.off()` - turns the LED OFF.

Key Learning Point

Python code can control real electronic components through GPIO pins. In this lesson, GP15 controls the external LED.

Raspberry Pi Pico Pinout Reference

