Lab 4 - ESP32 Wireless Lab

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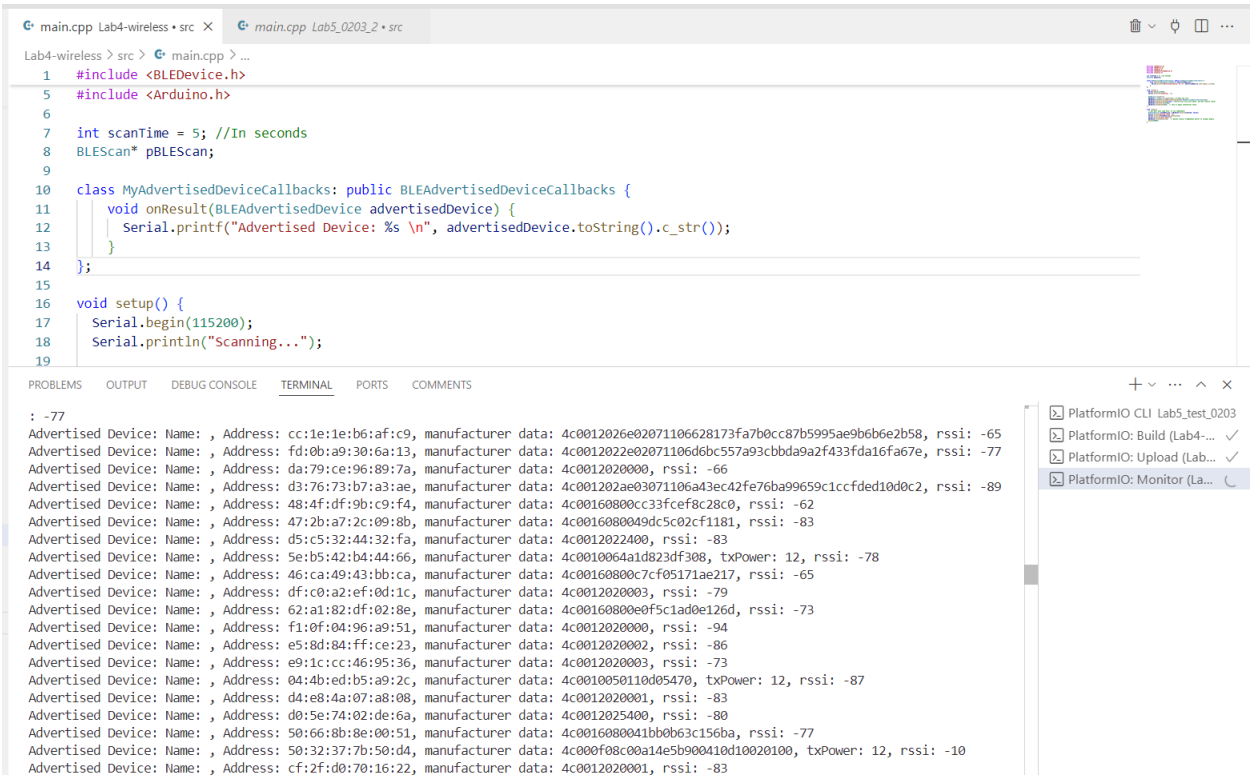
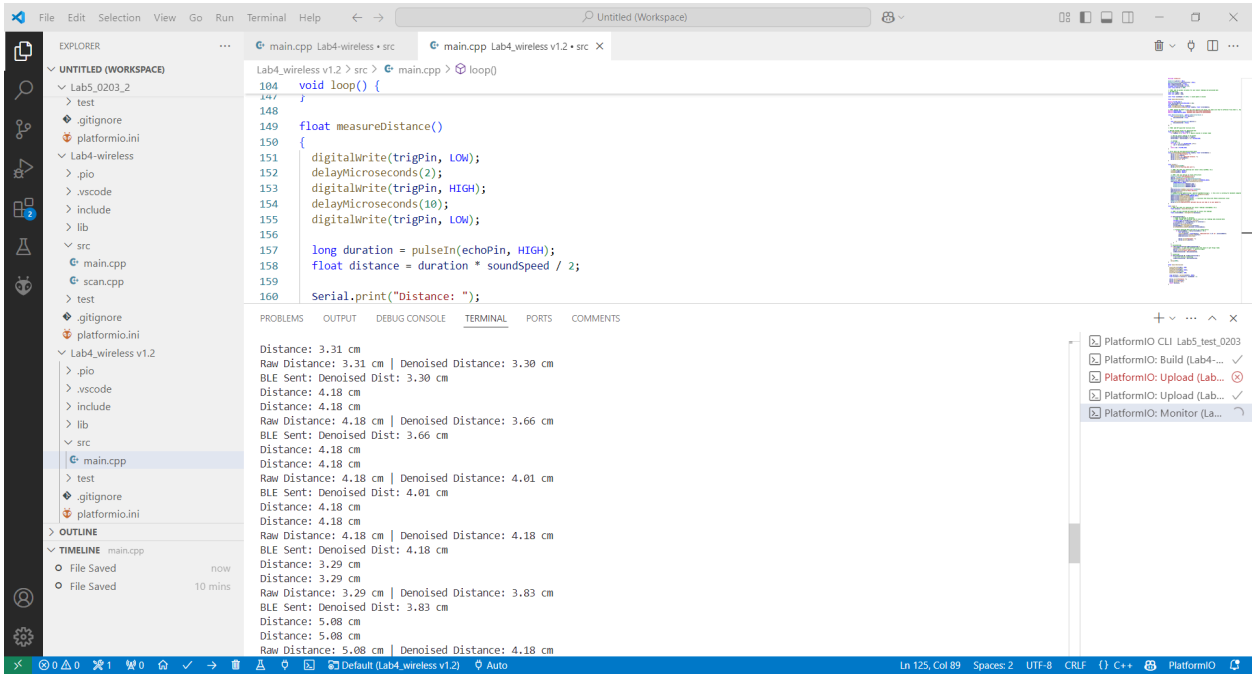
Screenshot of your serial monitor displaying the number of Bluetooth devices detected using your MCU as BLEScanner



Screenshot of the serial monitor of your client device to show a successful connection with your server device (make sure the server device's name is included).

```
--- Terminal on /dev/cu.usbmodem101 | 9600 8-N-1
--- Available filters and text transformations: colorize, debug, default, direct, esp32_exception_decoder, hexli
fy, log2file, nocontrol, printable, send_on_enter, time
--- More details at https://bit.ly/pio-monitor-filters
--- Quit: Ctrl+C | Menu: Ctrl+T | Help: Ctrl+T followed by Ctrl+H
 - Found our service
✅ Successfully connected to BLE server: XIAO_ESP32S3_Lily
 - Found our characteristic
The characteristic value was: Denoised Dist: 5.36 cm
We are now connected to the BLE Server.
Setting new characteristic value to "Time since boot: 1"
Raw BLE Data: Denoised Dist: 5.37 cm
Extracted Distance: 5.37 cm | Max: 5.37 cm | Min: 5.37 cm
Collected 1 data points.
Setting new characteristic value to "Time since boot: 2"
Raw BLE Data: Denoised Dist: 5.37 cm
Extracted Distance: 5.37 cm | Max: 5.37 cm | Min: 5.37 cm
Collected 2 data points.
Setting new characteristic value to "Time since boot: 3"
Raw BLE Data: Denoised Dist: 5.37 cm
Extracted Distance: 5.37 cm | Max: 5.37 cm | Min: 5.37 cm
Collected 3 data points.
Setting new characteristic value to "Time since boot: 4"
Raw BLE Data: Denoised Dist: 5.37 cm
Extracted Distance: 5.37 cm | Max: 5.37 cm | Min: 5.37 cm
Collected 4 data points.
Setting new characteristic value to "Time since boot: 5"
Raw BLE Data: Denoised Dist: 5.37 cm
Extracted Distance: 5.37 cm | Max: 5.37 cm | Min: 5.37 cm
Collected 5 data points.
Setting new characteristic value to "Time since boot: 6"
Raw BLE Data: Denoised Dist: 5.37 cm
```

Screenshot of the serial monitor of your server device to show the raw and denoised sensor data.



Screenshot of the serial monitor of your client device to show the current, maximum, and minimum data transmitted from your server device.