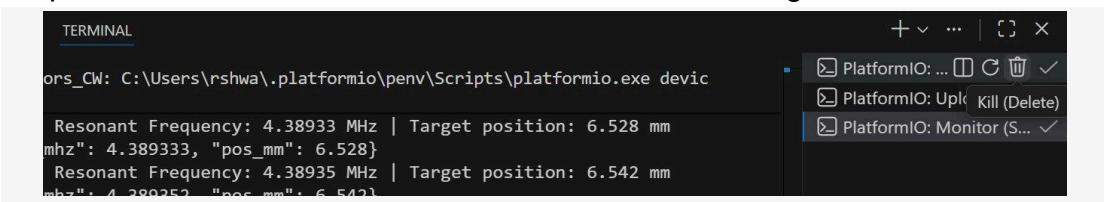


# Starting the UI

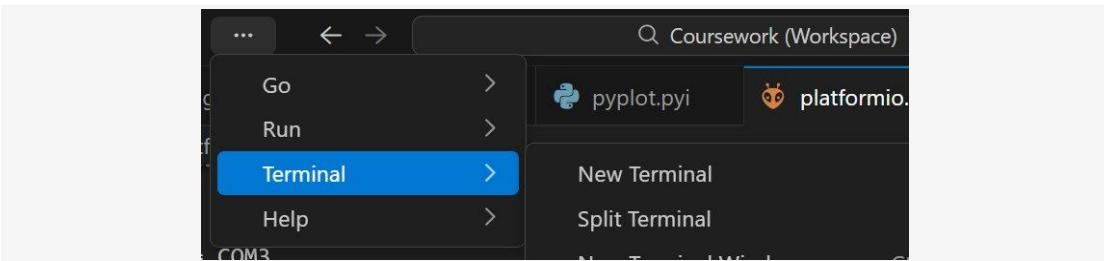
GitHub repo: <https://github.com/veertandon/EM-Position-Sensor>

Open the appropriate folder on VSCode.

- Step 1: Build & Upload main.c
- Step 2: Open the serial monitor to check if the correct data is being logged
- Step 3: Ctrl + c on serial monitor
- Step 4: Close the terminals as shown in the tab to the right



- Step 5: Open a new terminal



- Step 6: run unicorn backend.main:app --reload in the top folder. We should be getting readings in the terminal.

```
s\Sensors_CW> unicorn backend.main:app --reload  
ured Resonant Frequency: 4.38963 MHz | Target position: 6.752 mm  
eq_mhz": 4.389635, "pos_mm": 6.752}  
ured Resonant Frequency: 4.38964 MHz | Target position: 6.754 mm  
eq_mhz": 4.389637, "pos_mm": 6.754}  
ured Resonant Frequency: 4.38964 MHz | Target position: 6.759 mm  
eq_mhz": 4.389645, "pos_mm": 6.759}  
ured Resonant Frequency: 4.38964 MHz | Target position: 6.754 mm  
eq_mhz": 4.389638, "pos_mm": 6.754}  
ured Resonant Frequency: 4.38960 MHz | Target position: 6.729 mm  
eq_mhz": 4.389604, "pos_mm": 6.729}
```

- Step 7: Open a new terminal and run **streamlit run backend/ui.py**



- Step 8: The Streamlit UI should open in your browser.

If there is any error or the UI needs to be restarted, close all terminals as in Step 4 and only then, go through Step 1-8 again.