

Steps

Open Terminal

Make sure that python is installed on your mac

If Not then install it from: <https://www.python.org/>

```
Sh  
python3 --help
```

Create the Python Script:
we will use Visual Studio Code to write the Python script. Save the script with a .py extension, for example, battery_monitor.py.

Save your code to your desktop. Then import it in terminal using this command

```
Sh  
cd Desktop
```

Then Run you code

Stands For Sell Command

```
Sh  
python3 battery_monitor.py
```

Before running your code make sure you have installed the psutil library installed. You can install it using pip:

```
Sh  
pip3 install psutil
```

First Terminal Attempt

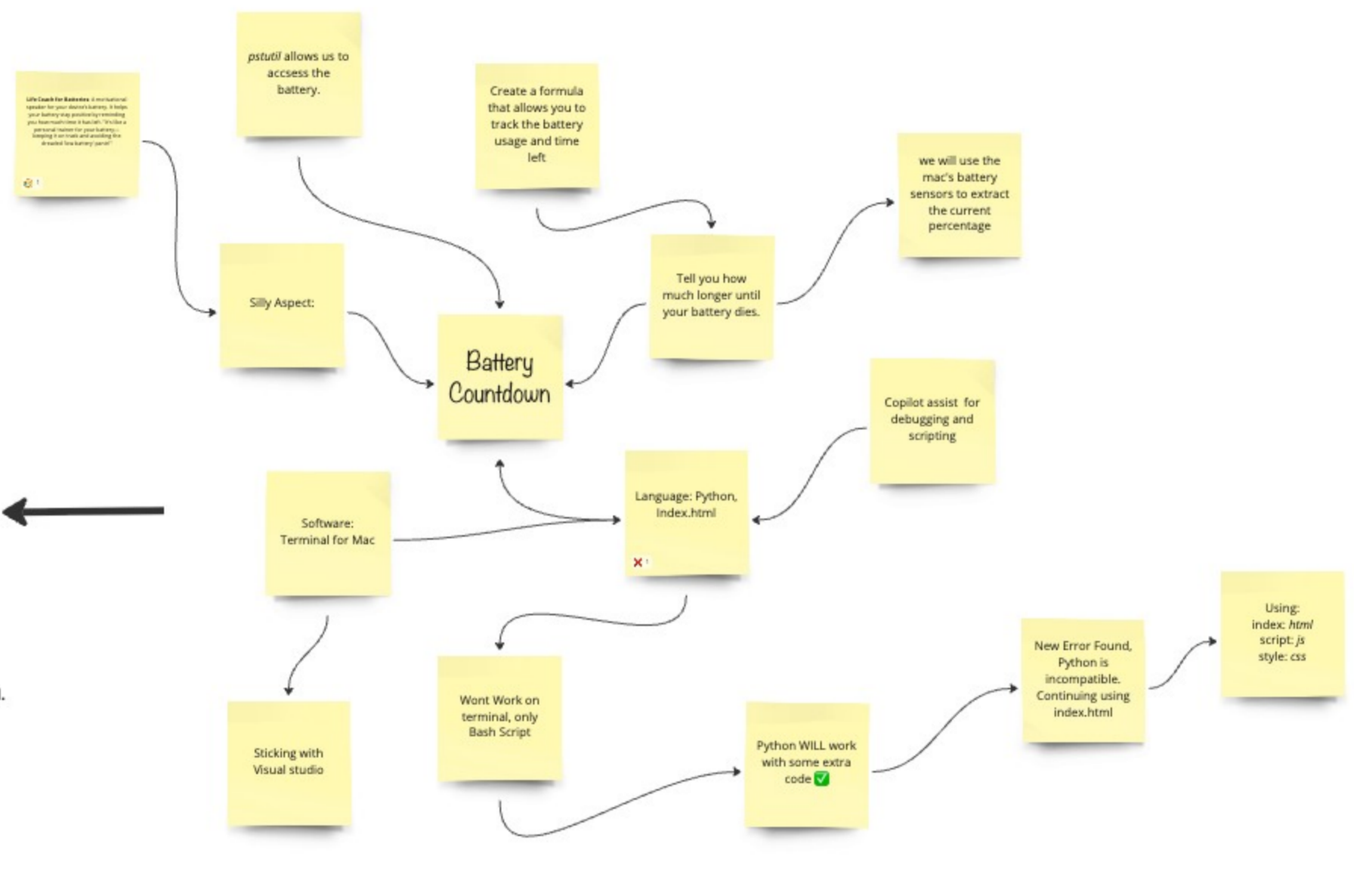
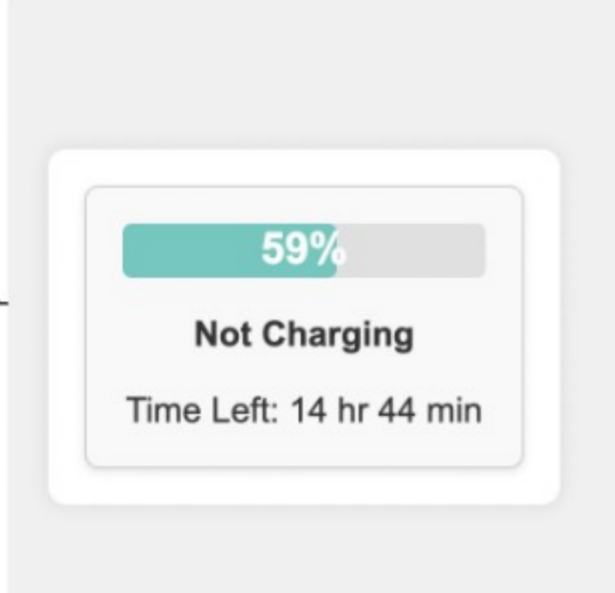
Using Terminal For Mac

```
Desktop - Python battery_monitor.py - 80x24  
Last login: Wed Dec 4 15:01:20 on ttys003  
MohamedBotaty@Mohameds-MacBook-Air ~ % pip3 install psutil  
Requirement already satisfied: psutil in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (6.1.0)  
[notice] A new release of pip is available: 24.2 -> 24.3.1  
[notice] To update, run: pip3 install --upgrade pip  
MohamedBotaty@Mohameds-MacBook-Air ~ % cd Desktop  
MohamedBotaty@Mohameds-MacBook-Air Desktop % python3 power_up_protector.py  
/Library/Frameworks/Python.framework/Versions/3.13/Resources/Python.app/Contents/MacOS/Python: can't open file '/Library/Frameworks/Python.framework/Versions/3.13/Resources/Python.app/Contents/MacOS/Python: [Errno 2] No such file or directory'  
MohamedBotaty@Mohameds-MacBook-Air Desktop % python3 battery_monitor.py
```

First attempt: Fail, Continuing using index.html

```
// Function to update the battery status  
function updateBatteryStatus(battery) {  
  let batteryPercentage = Math.round(battery.level * 100); // Get battery level as a percentage  
  let timerElement = document.getElementById('timer');  
  let batteryPercentageElement = document.querySelector('.battery-percentage');  
  let batteryFillElement = document.querySelector('.battery-fill');  
  let batteryStatusText = document.querySelector('.battery-status-text');  
  
  // Update the battery percentage display  
  batteryPercentageElement.textContent = `${batteryPercentage}%`;  
  batteryFillElement.style.width = `${batteryPercentage}%`;  
  
  // Update the charging status text  
  if (battery.charging) {  
    batteryStatusText.textContent = "Plugged In";  
  } else {  
    batteryStatusText.textContent = "Not Charging";  
  }  
  
  // Define battery capacity and average usage  
  const batteryCapacity = 5; // Total battery capacity in hours  
  const averageUsage = 0.2; // Average usage in hours per percentage (1 hour for every 20%)  
  
  // Calculate remaining battery life using the provided formula  
  let remainingBatteryLife = (batteryPercentage / 100) * batteryCapacity / averageUsage; // Remaining battery life in hours  
  
  // Convert remaining battery life to minutes  
  let timeLeftInMinutes = remainingBatteryLife * 60; // Convert hours to
```

Success!!



Submission Vid.

[Video Link](#)