Repolink: nirajan3477/labtest12 (github.com)

Odd

```
import numpy as np
import matplotlib.pyplot as plt
from scipy.signal import butter, filtfilt
np.random.seed(0)
aqi= np.random.normal(50, 100, 1440)
def low(data, cutoff, fs, order=5):
   nyq = 0.5 * fs
   normal cutoff = cutoff / nyq
   b, a = butter(order, normal cutoff, btype='low', analog=False)
   y = filtfilt(b, a, data)
saqi = low(aqi, cutoff=0.03, fs=2)
havg= np.mean(saqi.reshape(-1, 60), axis=1)
plt.plot(aqi, label='noise')
plt.plot(saqi, label='Smoothed', color='orange')
plt.plot(np.arange(0, 1440, 60), havg, marker='o', label='Hourly avg',
color='red')
plt.show()
```

Output:

