**Task 4: Data Visualization with Interactive Widgets**

* **Libraries Used**: matplotlib, numpy, ipywidgets
* **Summary**: In this task, we customized Matplotlib plots with interactive widgets using ipywidgets. We created a sample plot function to visualize a sine wave and added sliders to control the frequency and amplitude of the sine wave. This task demonstrated how to create dynamic and interactive data visualizations, enhancing the user experience.
* **Key Steps**:

1. **Import Libraries**: Imported matplotlib.pyplot, numpy, and ipywidgets.
2. **Define Plot Function**: Defined a function to plot a sine wave based on frequency and amplitude.
3. **Create Widgets**: Created sliders for frequency and amplitude using ipywidgets.FloatSlider.
4. **Link Widgets to Plot**: Used interactive to link the sliders to the plot function and display the interactive plot.