**User Guide for Signal Generator and Visualizer**

**1. Running the Code**

To run the code:

* Copy the URL below.

https://mybinder.org/v2/gh/toushif11/Signal-Generator.git/main?labpath=signal\_generator.ipynb

* Use any browser to run the link
* To execute the code use **SHIFT + ENTER**

**2. Input Parameters**

Once the program starts, it will prompt you for the following inputs:

* **Waveform Type**: Choose between sine, square, or triangular.
* **Frequency**: Input the frequency of the waveform (in Hz).
* **Amplitude**: Define the amplitude of the waveform.
* **Phase**: Set the phase of the waveform (in radians).
* **Duration**: Set the time duration for which the waveform is generated.

**3. Example Run**

Here’s an example of the input:

Enter waveform type (sine/square/triangular): sine

Enter frequency in Hz: 5

Enter amplitude: 2

Enter phase in radians: 0

Enter signal duration in seconds: 2

