

Assignment -1 (6th October 2020)

1. Generate a Sine and a Cosine wave

[hint: use numpy library]

2. Plot (time vs sine) and (time vs cosine).

[hint: For plotting use matplotlib library]

3. Store the sine data in a variable name “amplitude1” and cosine data in a variable name “amplitude2”.

4. Make an array with name “amplitude” using numpy and store the “time”, “amplitude1” and “amplitude2” data in the variable “amplitude”.

5. Store the data of “amplitude” in .csv file.

[hint: np.savetxt() can help you do this]

6. Make a function to open the saved file (file saved with .csv extension) and read the data from this file.

7. After reading the data, plot the data using matplotlib library.

8. Save the figure(s) (with .png extension) using python code in a folder.