Lab Assignment-5

Q1. Plot the following signals.

 a) Odd signal   b) Even signal c) Signum (Sign) Function

 d) Unit Ramp Signal e) Parabolic Signal f) Sinc Signal

 g) Right ,left and double sided exponential signal.

Q2. Plot the Sine Wave and Fourier amplitude Spectrum of frequency 50Hz, sampled at 1ms.

Q3. Plot the Square Wave and Fourier amplitude Spectrum of frequency 50Hz, sampled at 1ms.

Note:

1. For Q2 and Q3, you can make use of the scipy.fft pack and numpy.

2. Implement using Jupyter Notebook (language: Python), Install and Import necessary packages.

3. Indicate all steps clearly with explanation.

4. After execution download .ipynb and .pdf file which includes code, explanation, output and input image.