UEC502 Digital Signal Processing

LIST OF PROGRAMS – LAB 1

1. Represent the discrete time signal and plot it using a stem function.
   X = 2*n n = -10:1:10

2. Represent a discrete time signal and plot the real, imaginary & absolute angle (in radian) &angle in degree.
   $X[n] = e^{j\pi n/6}$

3. WAP to represent a signal:
   X[n] = impulse(n)
   Y[n] = impulse(n-4)

4. WAP to determine even and odd part of following signal:
   $X[n] = 0.8^{n}$

5. WAP to represent a discrete time signal:
   X[n] = 4n
   $-5 \leq n \leq 5$ or zero.

6. Determine discrete time sequence. Also determine Energy & Power; plot graph for same.
   $X[n] = (1/2)^{n}\, u[n]$ u[n] – unit step function