LAB REPORT

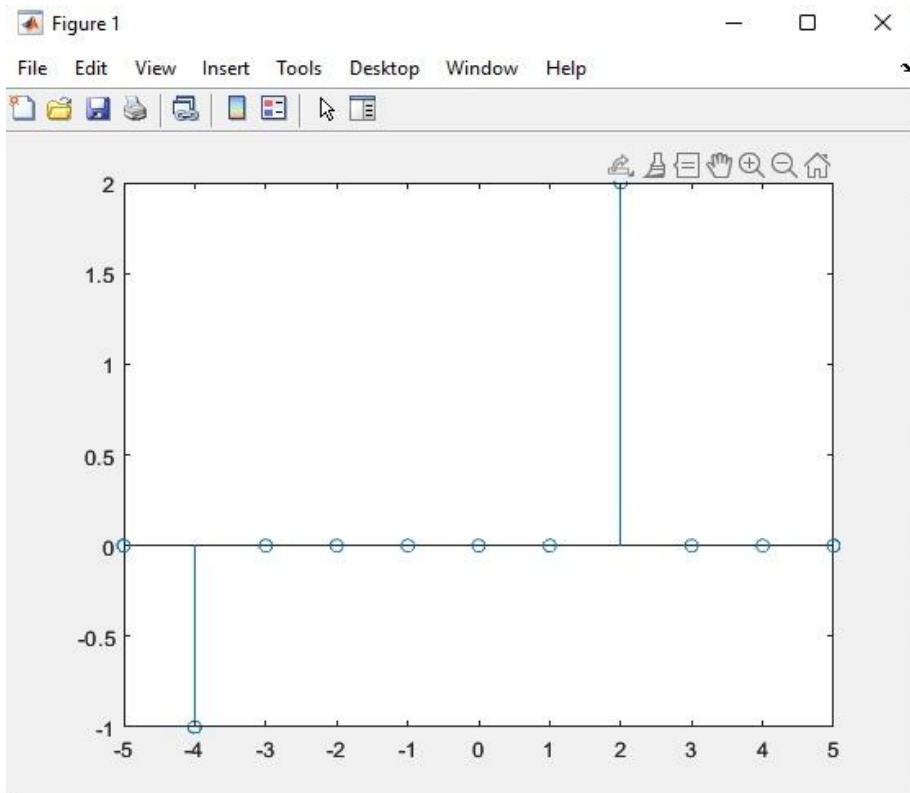**NAME :-** Kashish Ramani   **DATE :-** 17 Jan 2023
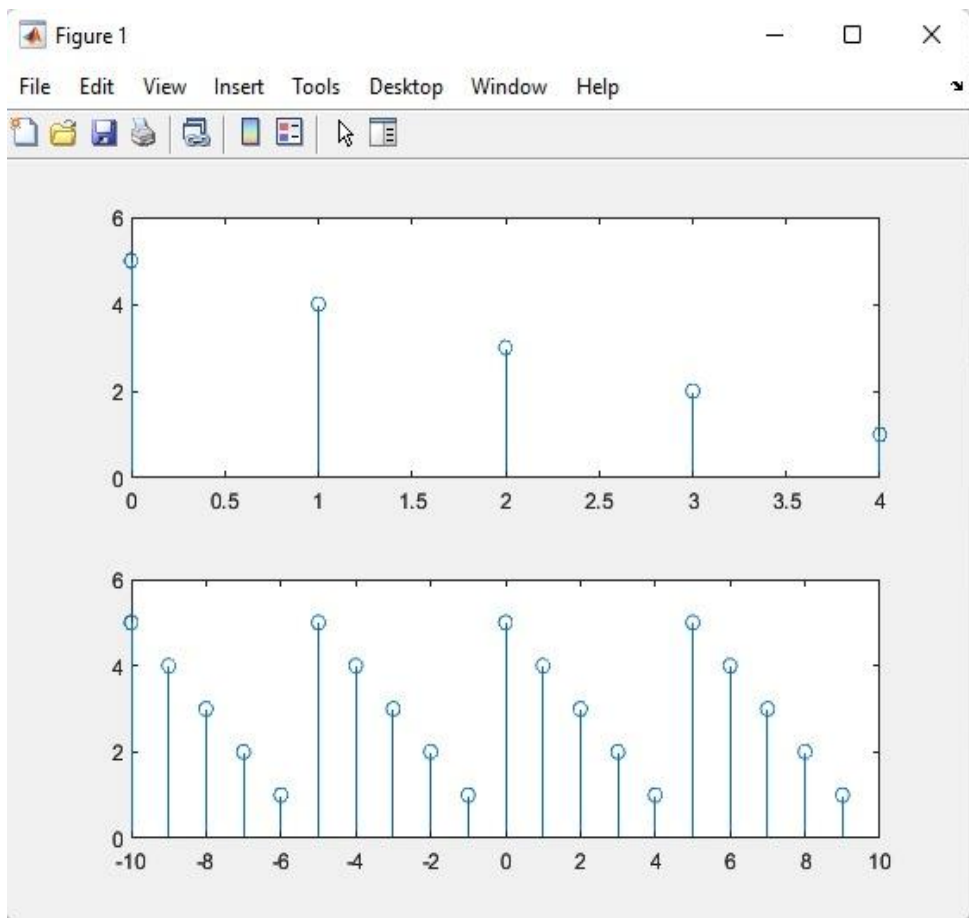
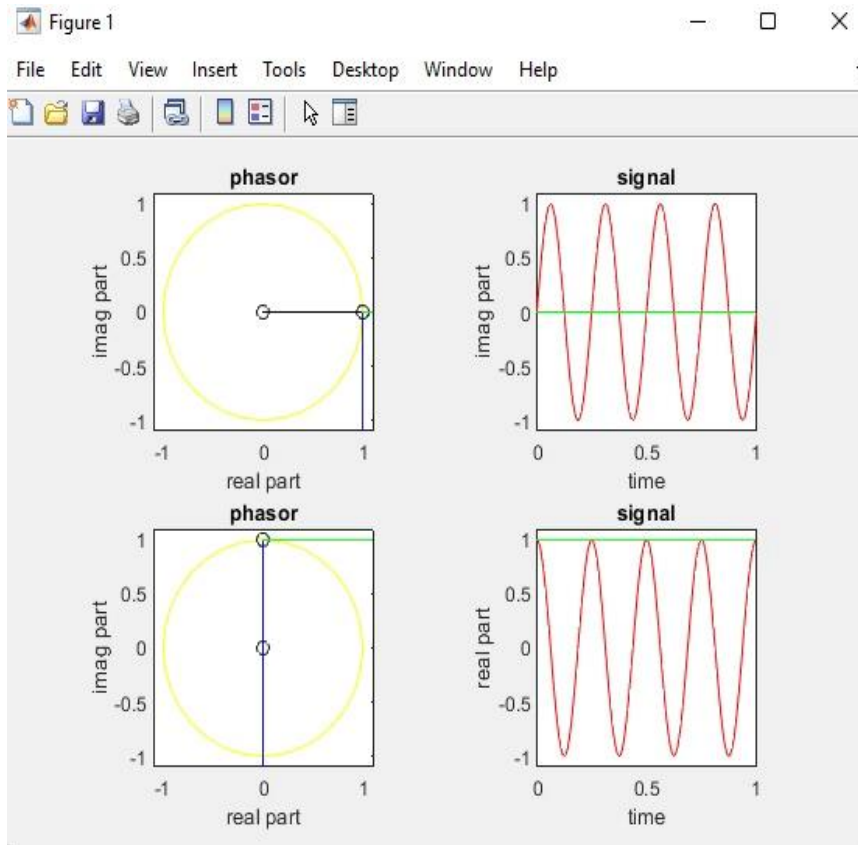**ROLL NO :-** 2101097

Fig(i) plot of x(n) = 2δ(n + 2) − δ(n − 4), −5 ≤ n ≤ 5
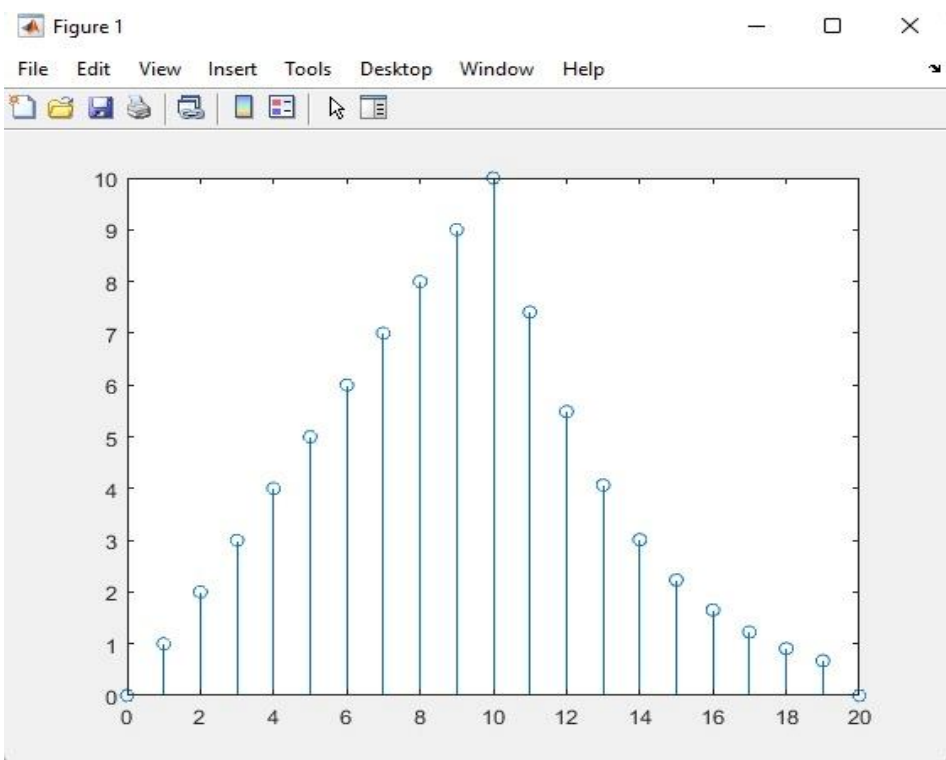
Fig(ii) Plot of x(n) = n[u(n) − u(n − 10)] + 10e −0.3(n−10)[u(n − 10) − u(n − 20)], 0 ≤ n ≤ 20
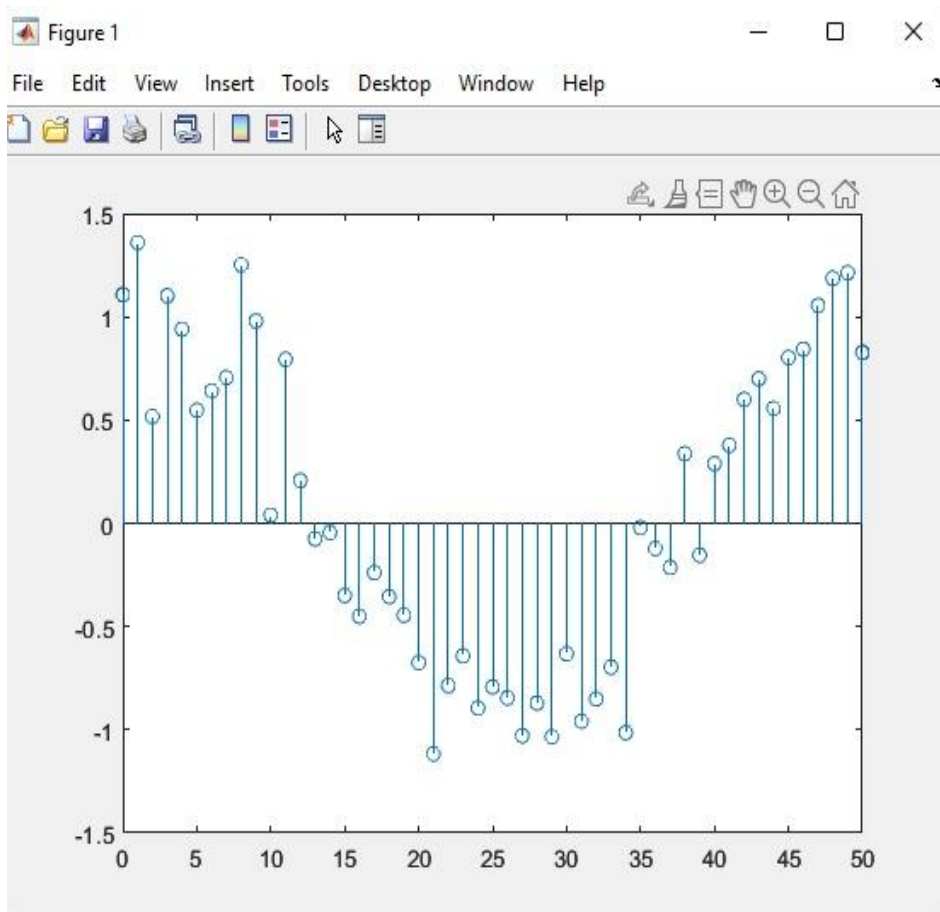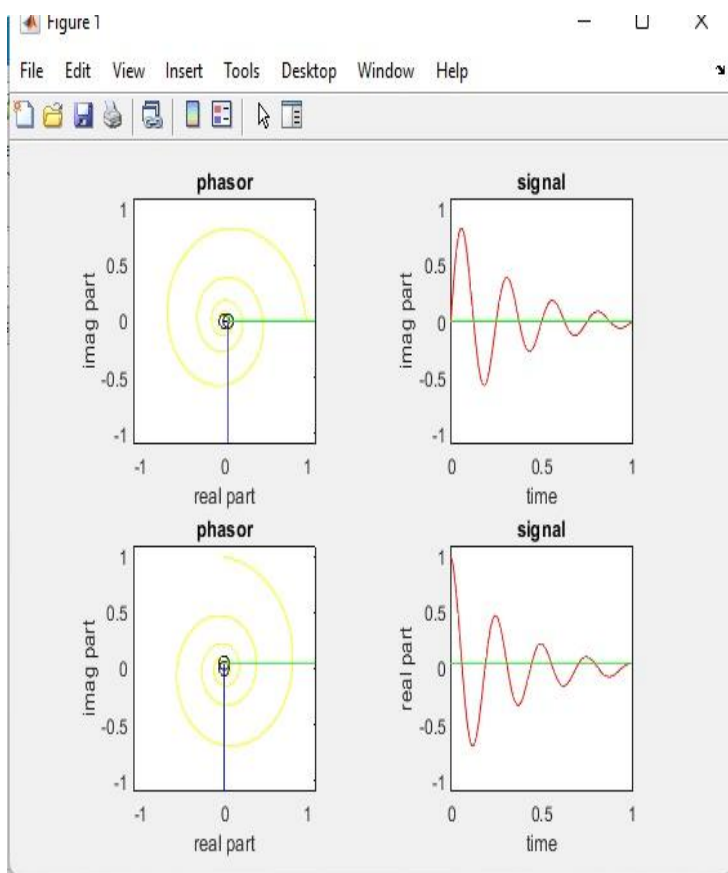
Fig(iii) Plot of x(n) = cos(0.04πn)+ 0.2w(n), 0 ≤ n ≤ 50

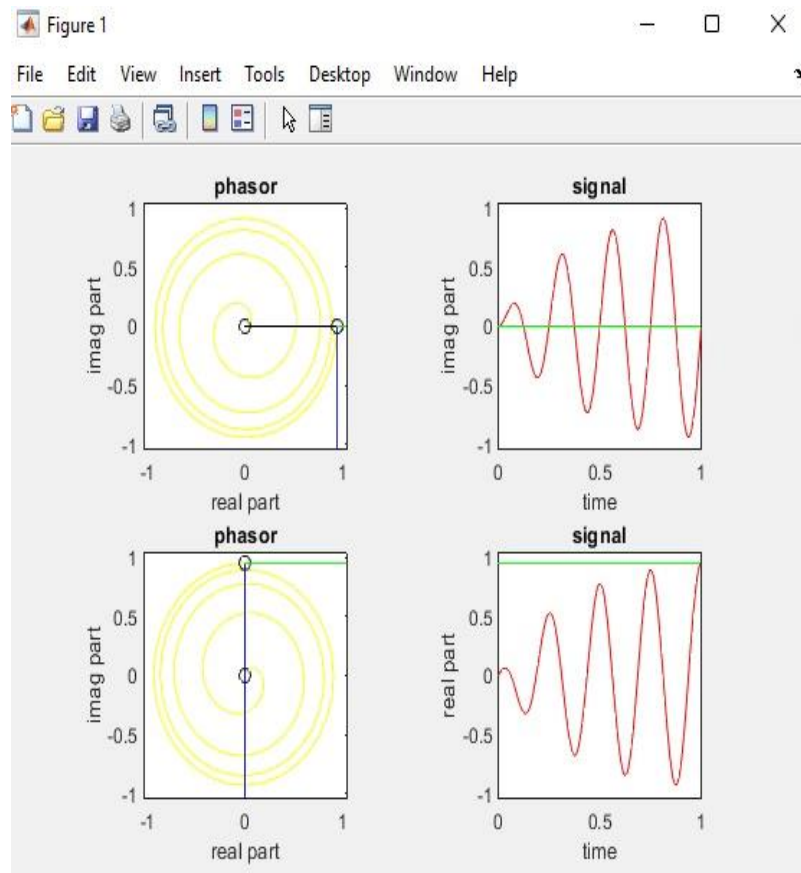Fig(iv) Plot of x(n) = {. . . , 5, 4, 3, 2, 1, 5, 4, 3, 2, 1, 5, 4, 3, 2, 1, . . . }, −10 ≤ n ≤ 9

Fig(v) Rotating phasor with real and imag part

Fig(vi) rotating phasor with exponentially

decaying magnitude

Fig(vii) rotating phasor with exponentially

increasing magnitude