**DTSP**

**EXPERIMENT NO: 1**

**REPRESENATION OF DIFFERENT SIGNALS**

**AIM:**  To represent and plot Different Signals using Matlab commands.

**Software Used:** MATLAB VERSION - 8.6.0.267246 (R2015b).

**PROGRAM:**

%To represent and plot Different Signals using Matlab commands.

%Ramp Signal

x=0:1:9;

y=0:1:9;

subplot(2,2,1);

stem(x,y);

xlabel('n');

ylabel('Amplitude');

title('Ramp Signal');

%Growing Exponential Signal

t=0:0.1:5;

z=exp(t);

subplot(2,2,2);

stem(t,z);

xlabel('n');

ylabel('Amplitude');

title('Growing Exponential Signal');

%Sinusoidal Signal

T=0:0.1:2\*pi;

subplot(2,2,3);

stem(T,sin(T));

xlabel('n');

ylabel('Amplitude');

title('Sinusoidal Signal');

%Growing Sinusoidal Signal

x=linspace(0,2\*pi,100);

p=(sin(3\*x).\*exp(0.3\*x));

subplot(2,2,4)

stem(x,p)

xlabel('n');

ylabel('Amplitude');

gtext('Name');

**OUTPUT:**

