Aim: To generate the discrete time sequences of:

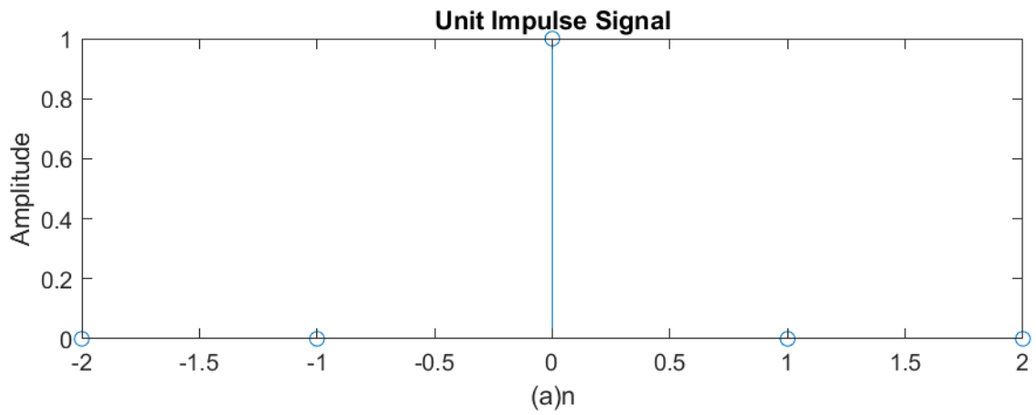
(a) Unit impulse sequence
(b) Unit step sequence
(c) Ramp sequence
(d) Exponential sequence
(e) Sinusoidal sequence
(f) Cosine sequence.

Tools: MATLAB R2019a

Code:

a) Unit impulse sequence

```
 % Discreate time sequence for UNIT IMPULSE SIGNAL
clc;
clear all;
close all;
t = -2:1:2;
y = [zeros(1,2),ones(1,1),zeros(1,2)];
subplot(3,2,1);
stem(t,y);
ylabel('Amplitude');
xlabel('(a)n');
title('Unit Impulse Signal');
```



b) Unit Step Sequence

```
n=input('enter the N value ');
t=0:1:n-1;
y=ones(1,n);
subplot(3,2,2);
stem(t,y);
ylabel('Amplitude');
xlabel('(b)n') ;
title('Unit Step Sequence') ;
```