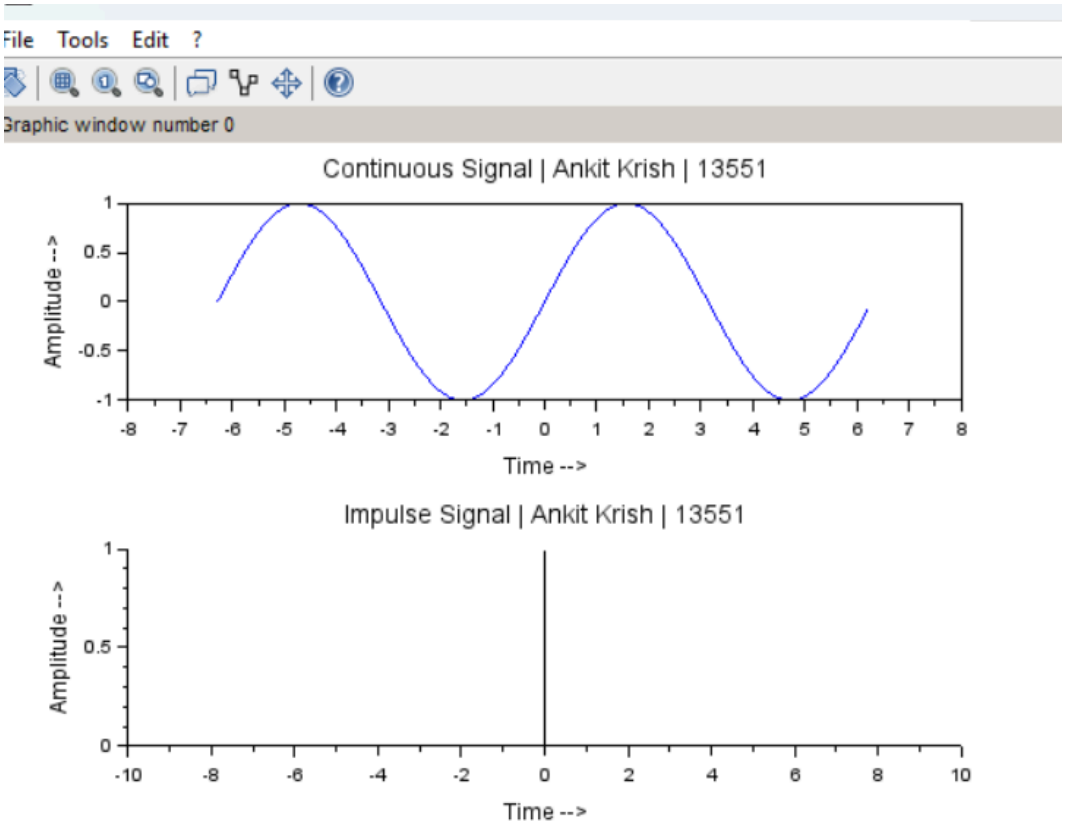
Experiment 1

Aim: Continuous and Impulse Signal

Code:

```
clc;
clear;
disp("Ankit Krish | 13551 ")
// Continuous Signal
t = -2*%pi:0.1:2*%pi
y = sin(t)
subplot(211)
plot(t,y)
title("Continuous Signal | Ankit Krish | 13551")
xlabel("Time -->");
ylabel("Amplitude -->");
//impulse
x = -10:10
z = zeros(1, length(x))
z(x==0) = 1
subplot(212)
plot2d3(x,z)
title("Impulse Signal | Ankit Krish | 13551")
xlabel("Time -->");
ylabel("Amplitude -->");
```

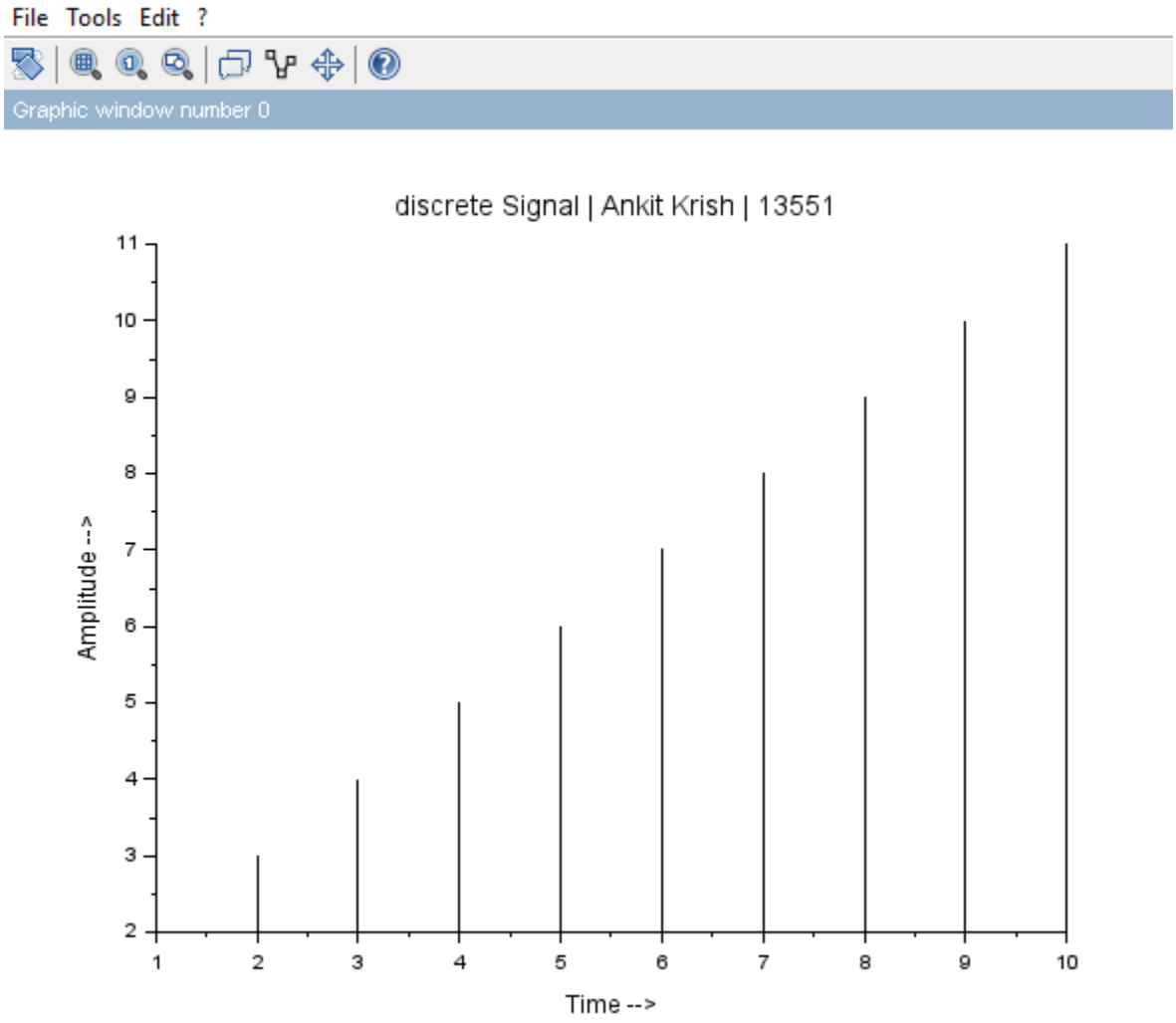


Experiment 2

Aim: Discrete and Impulse Signal

Code:

```
clc;
clear;
disp("Ankit Krish | 13551 ")
//Discrete System
for i = 1:10
    x(i) = 1 + i
end
a = 1:10
plot2d3(a,x)
title("discrete Signal | Ankit Krish | 13551")
xlabel("Time -->");
ylabel("Amplitude -->");
```



Experiment 3

Aim: Time shifting and Scaling of Sin function

Code:

```
//time shifting |  time scaling
x = 0:0.1:4*%pi
y = sin(x)
//normal color = green
subplot(211)
plot(x,y,"g")
plot(1.5*x,y)
subplot(212)
plot(x,y,"g")
plot(x+0.25*%pi,y)
```