```
%program for Linear sequence convolution
clc;
close all;
clear all;

x=input('enter input sequence 1: ');
y=input('enter input sequence 2: ');

z=conv(x,y);

subplot(3,1,1);
stem(x);
xlabel('n');
ylabel('x(n)');
title('input sequence 1') ;


subplot(3,1,2);
stem(y);
xlabel('n');
ylabel('y(n)');
title('input sequence 2')


subplot(3,1,3);
stem(z);
xlabel('n');
ylabel('z(n)');
title('linear convolution') ;

disp('linear convolution z=');
disp(z);

%program for signal convolution
t=0:0.1:10;
x1=sin(2*pi*1*t);
y1=cos(2*pi*1*t);
```

```
z1=conv(x1,y1);
figure;
subplot(3,1,1);
plot(x1);
xlabel('t');
ylabel('x(t)');
title('input signal 1') ;


subplot(3,1,2);
plot(y1);
xlabel('t');
ylabel('y(t)');
title('input signal 2')


subplot(3,1,3);
plot(z1);
xlabel('n');
ylabel('z(n)');
title('linear convolution');
```