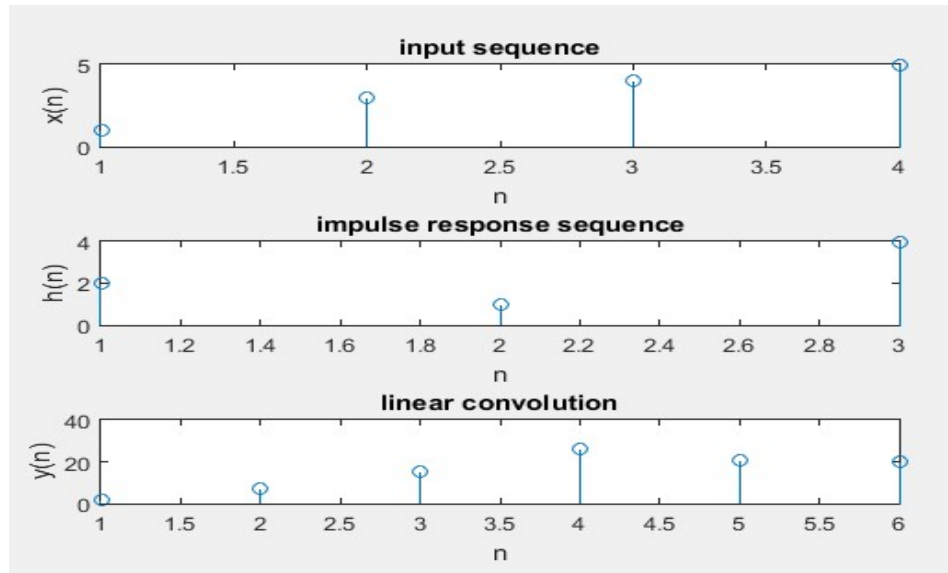**Experiment No: 03**

Experiment Name: Write a MATLAB program to obtain linear convolution .

Objectives: The main objectives is to obtain linear convolution from the given sequences.

Source Code:

```
clc;
close all;
clear all;
%program for convolution of two sequences
x=input('enter input sequence: ');
h=input('enter impulse response: ');
y=conv(x,h);
subplot(3,1,1);
stem(x);
xlabel('n');
ylabel('x(n)');
title('input sequence')
subplot(3,1,2);
stem(h);
xlabel('n');
ylabel('h(n)');
title('impulse response sequence')
subplot(3,1,3);
stem(y);
xlabel('n');
ylabel('y(n)');
title('linear convolution')
disp('linear convolution y=');
disp(y)
```

Output:

Discussion:

In this lab we can learn about how to obtain linear convolution and also learn how to plot those signals.