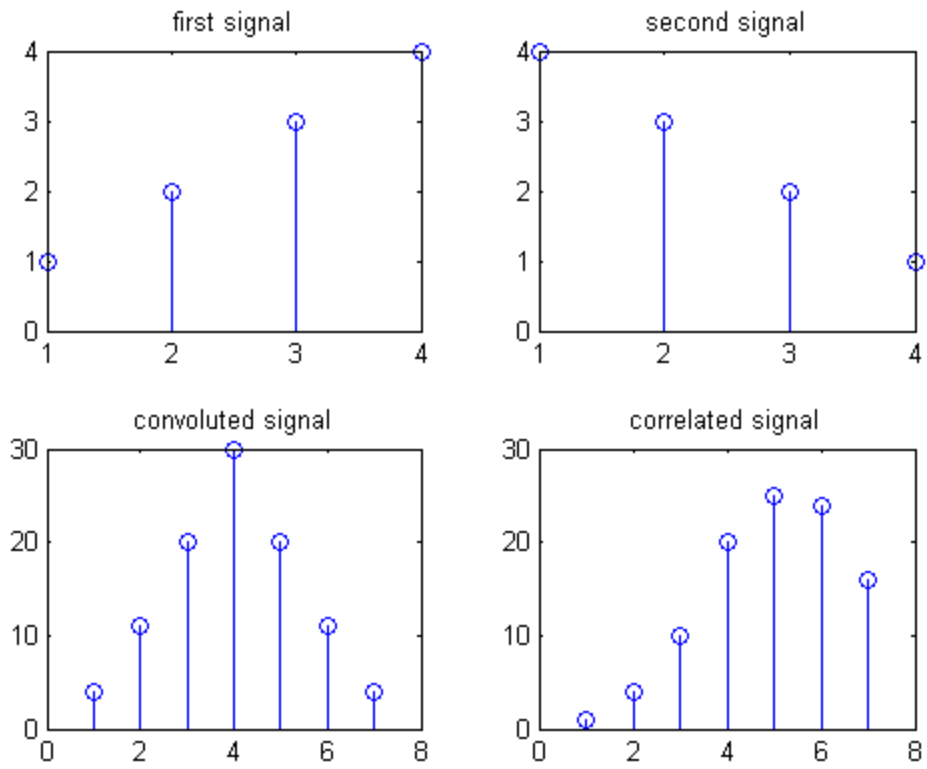


---

```
clc;
close all;
clear all;
x1=[1 2 3 4];
x2=[4 3 2 1];
x3=fliplr(x2);
k=1;sum1=0;sum2=0;
m=numel(x1);n=numel(x2);
s=(m+n-1);
for i=1:s
    for j=1:numel(x1)
        h=i-j+1;
        if h>0&&h<=numel(x2)
            sum1=sum1+(x1(j)*x2(h));
            sum2=sum2+(x1(j)*x3(h));
        end
    end
    y(k)=sum1;
    z(k)=sum2;
    sum1=0;sum2=0;
    k=k+1;
end
subplot(2,2,1),stem(x1);
title('first signal');
subplot(2,2,2),stem(x2);
title('second signal');
subplot(2,2,3),stem(y);
title('convoluted signal');
subplot(2,2,4),stem(z);
title('correlated signal')
```

```
%Roll No:20A91A04L8
%Name:k.Vivek
%Date:30/11/2021
```



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