```
Autocorrelation
  x=input ('Enter sequence x(n)=');
  rxx= conv(x,fliplr(x));
  disp('rxx=');
  disp(rxx);
  figure(1);
  stem(rxx,'filled');
  title('Autocorrelation output');
  xlabel('lag index');
  ylabel('amplitude');
Result:
Enter sequence x(n)=[1 2 3 4]
rxx=
           11
                   20
                          30
                                 20
                                      11
                                                 4
Cross Correlation
x=input ('Enter sequence x(n)=');
 y=input ('Enter sequence y(n)=');
  rxy= conv(x,fliplr(y));
  disp('rxy=');
  disp(rxy);
  figure(1);
  stem(rxy,'filled');
  title('cross correlation output');
  xlabel('lag index');
 ylabel('amplitude');
Result:
Enter sequence x(n)=[1 2 3 4]
Enter sequence y(n)=[4 3 2 1]
rxy=
     1
            4
                                         24
                  10
                          20
                                 25
                                                16
```