```
>> a=[-5:1:5]

a =

  Columns 1 through 9

    -5    -4    -3    -2    -1     0     1     2     3

  Columns 10 through 11

     4     5

>> a=[-0.5:0.1:1.5]

a =

  Columns 1 through 12

   -0.5000   -0.4000   -0.3000   -0.2000   -0.1000         0    0.1000    0.2000    0.3000    0.4000    0.5000    0.6000

  Columns 13 through 21

    0.7000    0.8000    0.9000    1.0000    1.1000    1.2000    1.3000    1.4000    1.5000

>> b=[1 2 3];
>> c=[3 4 6];
>> d=c+b
```

```
>> b=[1 2 3];
>> c=[3 4 6];
>> d=c+b

d =

     4     6     9

>> e=minus(c,b)

e =

     2     2     3

>> f=b.*c

f =

     3     8    18

>> g=c./b

g =

     3     2     2

>> h=power(3,4)
```

```
>> h=power(3,4)

h =

    81

>> j=a'

j =

   -0.5000
   -0.4000
   -0.3000
   -0.2000
   -0.1000
         0
    0.1000
    0.2000
    0.3000
    0.4000
    0.5000
    0.6000
    0.7000
    0.8000
    0.9000
    1.0000
    1.1000
    1.2000
    1.3000
```

```
>> x=2;
>> y=4;
>> z=y-x

z =

     2

>> a=minus(x,y);
>> a

a =

    -2

>> exp(a)

ans =

    0.1353

>> a=a+1

a =

    -1

>> v=a*exp(a)
```

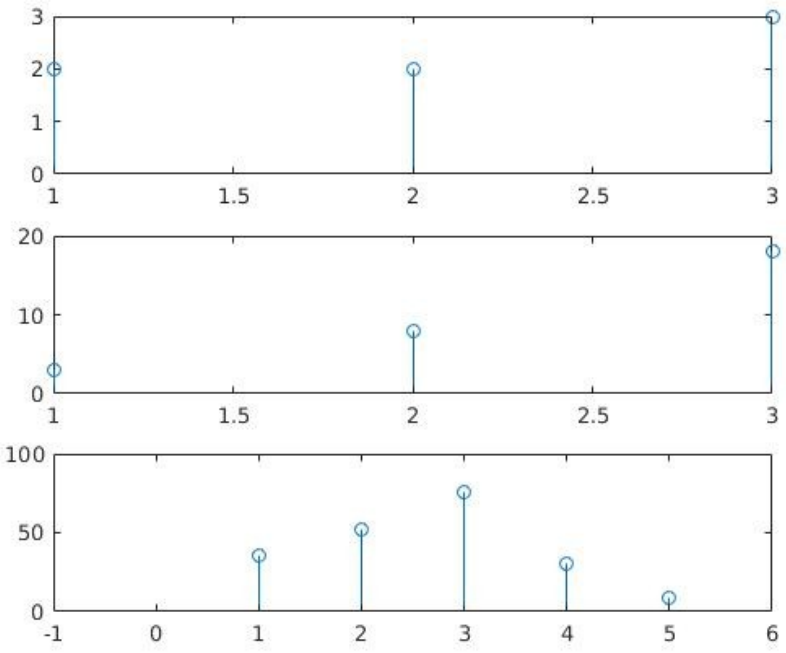
Command Window — Editor - untitled2

```
>> v=a*exp(a)

v =

   -0.3679

>> s=3*a*b^3
Error using ^
One argument must be a square matrix and the other must
be a scalar. Use POWER (.^) for elementwise power.

>> %since b is matrix we should use .^ instead of ^
>> s=3*a*b.^3

s =

    -3   -24   -81

>> l=[1 22 -0.4];
>> l[3]
 l[3]
  ↑
Error: Unbalanced or unexpected parenthesis or bracket.

>> %we must have used () instead [] to know the vector value for respective position
>> l(3)

ans =

   -0.4000
```

```
>> l(2:3)

ans =

   22.0000   -0.4000

>> l(:)

ans =

    1.0000
   22.0000
   -0.4000

>> plot (a,v)
>> r=-pi:pi/100:pi;
>> c=cos(r);
>> subplot(3,1,1);
>> plot(r,c);
>> xlabel('range');
>> ylabel('amplitude');
>> title('cosine graph')
>> subplot(3,1,2);
>> plot(r,sin(r));
>> plot(r,sin(r)), 'g*';
>> subplot(3,1,3);
>> plot(r,sin(r), 'g*',r,c,'r+');

>> %making a new function aad1
>> p=10;
>> i=20;
>> u=add1(p,i)
Undefined function or variable 'add1'.

Did you mean:
>> u=aad1(p,i)

f =

    30


u =

    30

>> %save function before executing else error will pop up
>> b.'

ans =

     1
     2
     3

>> b'

ans =

     1
     2
     3

>> b.^2

ans =

     1     4     9

>> b.4
 b.4
  ↑
Error: Unexpected MATLAB expression.

>> b./4

ans =

    0.2500    0.5000    0.7500

>> %check boolen
>> h
```

```
>> %check boolen
>> h

h =

    81

>> i

i =

    20

>> h!=i
 h!=i
  ↑
Error: Unexpected MATLAB operator.

>> h~=i

ans =

  logical

   1

>> h==i
>> h>=i

ans =

  logical

   1

>> h&i==45

ans =

  logical

   0

>> h|i==45

ans =

  logical

   1
```

```
>> %if while for statements
>> if h>i;
fprintf('true');
else
fprintf('fasle');
end
true>> while (x<=2);
fprintf('its value %d\n',x);
x=x+1;
end
its value 2
>> %cross correlation discrete signal
>> %cross correlation discrete
>> e

e =

     2     2     3

>> f

f =

     3     8    18

>> subplot(311);
>> stem(e);
>> subplot(312);
>> stem(f);
>> subplot(313);
>> y=xcorr(e,f);
>> stem(y);
```



**********THANK YOU**********