```
>> clear all
>> exercise1script

y =

   27.1411

>> x = 4

x =

     4

>> exercise1script

y =

   63.2432

>> x = 5

x =

     5

>> exercise1script

y =

  124.0411

>> x = 6

x =

     6

>> exercise1script

y =

  215.7206

>> x = 3

x =

     3

>> exercise1func(3)
```

```
ans =

   27.1411

>> x = [3 4 5 6]

x =

     3     4     5     6

>> exercise1func(x)

ans =

   27.1411   63.2432  124.0411  215.7206

>> x = 12

x =

    12

>> a = 12

a =

    12

>> b = 5

b =

     5

>> xArray = [1 3 5 7 9]

xArray =

     1     3     5     7     9

>> yArray = [2 4 6 8 10]

yArray =

     2     4     6     8    10

>> lec_16

y =

    12
```

```
y =

     2


ans =

    12

>> myRand(1,10)

ans =

    8.3325

>> myRand(100,100+1)

ans =

  100.9058

>> myRand(3,pi)

ans =

    3.0180

>> myRand(20)
Not enough input arguments.

Error in myRand (line 2)
scale = maxRand - minRand;

>> myRand(20) % THis will give error since maxRand is not stated
Not enough input arguments.

Error in myRand (line 2)
scale = maxRand - minRand;

>> myRand(20,1)

ans =

    2.6459

>> twoTo8 = twoN(8)

twoTo8 =
```

```
   256

>> newNumber = twoN(5)

newNumber =

    32

>> squareOfTwo = twoN(2)

squareOfTwo =

     4

>> twoN(9)

ans =

   512

>> rootOfPower = twoN(5)^(1/2)

rootOfPower =

    5.6569

>> twoN % This wont work since w=the value of n os not defined
Not enough input arguments.

Error in twoN (line 6)
y = 2^n;

>> quadRoots(1,3,2)

ans =

    -1
    -2

>> quadRoots(1,6,10)

ans =

  -3.0000 + 1.0000i
  -3.0000 - 1.0000i

>> quadRoots(1,6,13)

ans =

  -3.0000 + 2.0000i
```

```
  -3.0000 - 2.0000i

>> myCubic(-5)

ans =

   -58

>> myCubic(5)

ans =

   142

>> x = [-5:5]

x =

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

>>  cubicExercise

A =

  Line with properties:

            Color: [0 0.4470 0.7410]
        LineStyle: '-'
        LineWidth: 0.5000
           Marker: 'none'
       MarkerSize: 6
    MarkerFaceColor: 'none'
            XData: [1 2 3 4 5 6 7 8 9 10 11]
            YData: [-58 -20 -2 2 -2 -8 -10 -2 22 68 142]

  Show all properties


B =

  1×11 logical array

   0   0   0   0   0   0   1   0   0   0   0


ans =

    2.1249
   -2.7616
   -1.3633
```

```
ans =

   86.6667

>>
```