```
In [2]: import numpy as np
 In [4]: b = np.array([[1,2,3], [4,5,6], [7,8,9]])
Out[4]: array([[1, 2, 3],
               [4, 5, 6],
               [7, 8, 9]])
 In [5]: b.shape
Out[5]: (3, 3)
 In [6]: b.size
         #to check the number of elements in the array
Out[6]: 9
 In [7]: b_ins = np.insert(b, 1,[15,13,15], axis=0)
         b ins
         #to insert in the second column
Out[7]: array([[ 1, 2, 3],
               [15, 13, 15],
               [4,5,6],
               [ 7, 8, 9]])
 In [8]: b_{ins2} = np.insert(b, 2, [15, 13, 12], axis=1)
 Out[8]: array([[ 1, 2, 15, 3],
              [ 4, 5, 13, 6],
               [ 7, 8, 12, 9]])
 In [9]: x = np.matrix('1,2,3;4,5,6;7,8,9')
         X
Out[9]: matrix([[1, 2, 3],
           [4, 5, 6],
                [7, 8, 9]])
In [10]: x.shape
Out[10]: (3, 3)
In [11]: x.size
Out[11]: 9
In [13]: x[2,1] = -5
         # to change the element of 3rd row 2nd column
Out[13]: matrix([[ 1, 2, 3],
               [ 4, 5, 6],
                [ 7, -5, 9]])
In [14]: x[1, :]
         #to get the 2nd column in the matrix
Out[14]: matrix([[4, 5, 6]])
In [15]: arr = np.array([[1,2,3], [4,5,6], [7,-8,9]])
         arr
Out[15]: array([[ 1, 2, 3],
              [ 4, 5, 6],
               [ 7, -8, 9]])
In [16]: arr[1]
         array([4, 5, 6])
In [17]: # Matrix Mulitplication
Out[17]: matrix([[ 30, -3, 42], [ 66, 3, 96], [ 50, -56, 72]])
In [18]: # Array Multiplication
         arr*arr
Out[18]: array([[ 1, 4, 9], [16, 25, 36], [49, 64, 81]])
```