```
In [2]: import numpy as np
         a=np.array([5,5,5,5,5,5])
         array([5, 5, 5, 5, 5, 5])
Out[2]:
         1-Dimensional array
 In [4]: import numpy as np
         a=np.array([5,5,5,])
         array([5, 5, 5])
Out[4]:
In [23]:
         len(a)
Out[23]:
In [25]: a[0]
Out[25]:
In [26]:
         a[0:3]
         array([5, 5, 5])
Out[26]:
         a[0:2]
In [27]:
         array([5, 5])
Out[27]:
         - ndarray means N number of dimention
         type(a)
 In [5]:
         numpy.ndarray
Out[5]:
         2-Dimensional array (row. colomn)
In [10]: # list of lists
         b=np.array([[5,5,5],[5,5,5],[5,5,5]])
         array([[5, 5, 5],
Out[10]:
                [5, 5, 5],
                [5, 5, 5]])
In [24]:
        len(b)
Out[24]:
```

```
In [18]: # importing the module
import numpy as np

d1=np.array([4,5,6,7])
d1

Out[18]: array([4,5,6,7])

In [19]: d2=np.array([[3,5,8,2],[3,4,7,5],[7,6,5,4]])
d2

Out[19]: array([[3,5,8,2],[3,4,7,5],[7,6,5,4]])
[3, 4, 7, 5],
[7, 6, 5, 4]])
```

1-Dimensional array is called vector

(there is no difference between row and column in 1-D)

2-Dimensional is called matrix

3-ndarray is used for both matrix and vector

Vector is 1-D

matrix is 2-D

"array" can mean either a single-dimensional array, or a multidimensional array