In [ ]:
```
###     Numpy
```

In [ ]:
```
##   What is Numpy ?

##  It is a package used to deal with arrays and matrix.


### How to install ?
# pip install numpy
```

In [ ]:
```
import numpy as np
```

In [ ]:
```
# How to create one dimensional array ?

list = [10,20,30,40,50]
array_one = np.array(list)
```

In [ ]:
```
array_one
```

Out[ ]:
```
array([10, 20, 30, 40, 50])
```

In [ ]:
```
array_one.ndim  #  shows the number of dimensions for array
```

Out[ ]:
```
1
```

In [ ]:
```
array_one.shape # Returns the number of elements in numpy array.
```

Out[ ]:
```
(5,)
```

In [ ]:
```
type(array_one) # Shows type of array_one
```

Out[ ]:
```
numpy.ndarray
```

In [ ]:
```
##  How to create two dimensional array ?

array_two = np.array([[10,20,30],
                      [40,50,60],
                      [70,80,90]])
```

In [ ]:
```
array_two
```

Out[ ]:
```
array([[10, 20, 30],
       [40, 50, 60],
       [70, 80, 90]])
```

In [ ]:
```
array_two.ndim  #  shows the number of dimensions for array
```

Out[ ]:
```
2
```

In [ ]:
```
array_two.shape # Returns the number of elements in numpy array.
```

Out[ ]:
```
(3, 3)
```

In [ ]:
```

```

In [ ]:
```
type(array_two) # Shows type of array_two
```

Out[ ]:
```
numpy.ndarray
```

In [ ]:
```
# How to create matrix in numpy ?
```

In [ ]:
```
matrix = np.matrix(([[10,20,30],
                     [40, 50, 60],
                     [70,80,90]]))
```

In [ ]:
```
matrix
```

Out[ ]:
```
matrix([[10, 20, 30],
        [40, 50, 60],
        [70, 80, 90]])
```

In [ ]:
```

```