## **NUMPY:**

<u>NumPy</u> – which stands for numerical Python; It is a library consisting of multidimensional, array objects and collection of routines on processing those always. NumPy helps to perform mathematical and logical operation on array.

## **Operation using NumPy**:

- . Mathematical and logical on array.
- . Furrier transforms and routines for shape manipulation.
- . Operation related to linear algebra and in build functions for linear Algebra and random number generation.

NumPy is often used along with packages like spicy (scientific Python) and MatPlotlib (Plotting library)

Import NumPy as me the most import object define in NumPy is an n dimensional array type called an array.

import NumPy a np a = np.array ([1, 2, 3]) Print a

## Output: -

[1, 2, 3]

import NumPy as np a= np.array ([[12, 3],[4,5,6]]) Print a.Shape

## **Output:**

(2, 3)