## **Importing Numpy**

import numpy as np

## **Creating a Numpy Array**

## **Arithematic Operations on Single Array**

```
#it will add 485 in each
addition=np array+485
element in the array
                                             #it will multiply each
multiplication=np array*485
element in the array with 485
                                            #it will divide each
dvision=np array/1
element in the array with 1
                                            #it will substract each
substraction=np array-1
element in the array with 1
modulus=np array%10
                                            #it will take mudulus of
each element in the array with 10
addition
array([485.74741127, 485.89605614, 485.23094932, 485.06507348,
      485.6700732 , 485.38464402, 485.16176724, 485.55536433,
       485.29473703, 485.93370799])
multiplication
array([362.49446748, 434.58722789, 112.01041908, 31.56064004,
       324.98550427, 186.55234837, 78.45711114, 269.35170176,
       142.94745714, 452.848373891)
dvision
array([0.74741127, 0.89605614, 0.23094932, 0.06507348, 0.6700732
      0.38464402, 0.16176724, 0.55536433, 0.29473703, 0.93370799])
substraction
array([-0.25258873, -0.10394386, -0.76905068, -0.93492652, -
0.3299268 ,
       -0.61535598, -0.83823276, -0.44463567, -0.70526297, -
0.066292011)
```

```
modulus
array([0.74741127, 0.89605614, 0.23094932, 0.06507348, 0.6700732, 0.38464402, 0.16176724, 0.55536433, 0.29473703, 0.93370799])
```

## **Measures of Centre**

```
# Calculate the mean and standard deviation of the array
mean_value = np.mean(np_array)
std_deviation = np.std(np_array)

print("Mean:", mean_value)
print("Standard Deviation:", std_deviation)

Mean: 0.4939784022786348
Standard Deviation: 0.29482088898086944
```