Basic array_operations

```
In [2]: import numpy as np
In [6]: arr=np.array([1,2,3,4,5])
    print("array:",arr)
        array: [1 2 3 4 5]
In [7]: print("add 5",arr+5)
        add 5 [ 6 7 8 9 10]
In [10]: print("multiply 2",arr*2)
        multiply 2 [ 2 4 6 8 10]
```

Mean_median_standard deviation

Reshaping_arrays

```
In [19]: import numpy as np
In [25]: arr=np.arange(1,13)
In [28]: reshaped_arr=arr.reshape(3,4)
```

```
In [30]: print("Reshaped_array",reshaped_arr)

Reshaped_array [[ 1  2  3  4]
      [ 5  6  7  8]
      [ 9  10  11  12]]
```

Array_indexing

Array_concatenation

Boolean Indexing

```
In [46]: import numpy as np
In [47]: arr=np.array([1,2,3,4,5])
In [48]: filter_array=arr[arr>2]
```

```
In [49]: print("filterd_array",filter_array)
     filterd_array [3 4 5]
```

Dot product

Linear algebra operations