```
pip install numpy

Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (1.23.5)

import numpy as np
```

In Python you store 1-D array but in Numpy you can store 2-D & 3-D array

Python

```
lst = [1,2,3,4,5]
lst

[1, 2, 3, 4, 5]
```

Numpy

Size

Size tells the numbers of elements in the array

```
print(a.size)
print(b.size)
print(c.size)

5
10
```

Shape

Shape tells the number of rows and columns in the array

```
31/01/2024, 19:10

print(a.shape)

print(b.shape)

print(c.shape)

(5,)

(2, 5)

(1, 3, 5)
```

Dtype

Dtype tells the datatype of the elements present in the array

```
print(a.dtype)
print(b.dtype)
print(c.dtype)
     int64
     int64
     int64
С
     c.transpose()
     array([[[ 1],
             [ 6],
             [11]],
            [[ 2],
             [ 7],
[12]],
            [[ 3],
[ 8],
[13]],
            [[ 4],
             [ 9],
[14]],
            [[5],
             [10],
[15]]])
```