

In [1]: #21/01/2025

```
import numpy as np
array = np.arange(40).reshape(4,10)
print(array)
import numpy as np
arr = np.array([[1,2,3], [4,5,6]])
print(arr)
arr = np.array([[1,2,3], [4,5,6], [1,2,3], [4,5,6]])
```

```
[[ 0  1  2  3  4  5  6  7  8  9]
 [10 11 12 13 14 15 16 17 18 19]
 [20 21 22 23 24 25 26 27 28 29]
 [30 31 32 33 34 35 36 37 38 39]]
[[1 2 3]
 [4 5 6]]
```

In [3]: `import numpy as np`  
`arr = np.array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11,23])`  
`print(arr[2] + arr[3])`  
`arr[0] + arr[1]`  
`arr[5] + arr[7]`

7

Out[3]: 14

In [5]: `arr = np.array([[1,2,3,4,5],[6,7,8,9,10]])`  
`print(arr)`  
`print('0th element on 2nd row is:',arr[0,2])`  
`print(arr[1,4])`

```
[[ 1  2  3  4  5]
 [ 6  7  8  9 10]]
0th element on 2nd row is: 3
10
```

In [7]: `import numpy as np`  
`arr = np.array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13])`

```
print(arr[1:5:2])
```

```
[2 4]
```

```
In [ ]:
```