

```
import numpy as np
```

```
np.array([1,2,3,4,5])
```

```
↵ array([1, 2, 3, 4, 5])
```

```
a=np.array([1,2,3,4,5])
```

```
a
```

```
↵ array([1, 2, 3, 4, 5])
```

```
a[1]
```

```
↵ np.int64(2)
```

```
a[0:]
```

```
↵ array([1, 2, 3, 4, 5])
```

```
a[0:3]
```

```
↵ array([1, 2, 3])
```

```
b=np.array([0.5,1.0,1.5])
```

```
b[0]
```

```
↵ np.float64(0.5)
```

```
a.dtype
```

```
↵ dtype('int64')
```

```
b.dtype
```

```
↵ dtype('float64')
```

```
a=np.array([1,2,3,4,5],dtype=np.int8)
```

```
a[0]
```

```
↵ np.int8(1)
```

```
c=np.array(['a','b','c'])
```

```
c
```

```
↵ array(['a', 'b', 'c'], dtype='<U1')
```

```
c[0]
```

```
↵ np.str_('a')
```

```
A=np.array([
    [1,2,3],
    [4,5,6]
])
```

```
A.shape
```


```
↵ (2, 3)
```

```
A.size
```

 6

```
B=np.array([
    [
        [1,2,3],
        [4,5,6]
    ],
    [
        [7,8,9],
        [10,11,12]
    ]
])
```


B.shape

 (2, 2, 3)


B.size

 12


B.sum()

 np.int64(78)


B.mean()

 np.float64(6.5)


A.sum(axis=0)

 array([5, 7, 9])


A.sum(axis=1)

 array([ 6, 15])

A+10


 array([[11, 12, 13],  
 [14, 15, 16]])

A

 array([[1, 2, 3],  
 [4, 5, 6]])

A=A+10

A

 array([[11, 12, 13],  
 [14, 15, 16]])

Start coding or [generate](#) with AI.

