→ 2D ARRAY

creating an array of zero

```
b=np.zeros(6)
b
array([0., 0., 0., 0., 0., 0.])
```

creating an array of one

```
c=np.ones(6)
c
    array([1., 1., 1., 1., 1., 1.])

d=np.arange(10,20,2)
d
    array([10, 12, 14, 16, 18])

e=np.linspace(0,10,6)
e
    array([ 0., 2., 4., 6., 8., 10.])
```

arthmetic operation

▼ addition

```
a=np.array([[0,1,2,3],[4,5,6,7]])
a1=np.array([[8,9,10,11],[12,13,14,15]])
```

▼ subtraction

▼ multiplication

```
a*a1
array([[ 0, 9, 20, 33],
        [ 48, 65, 84, 105]])
```

→ division

→ comparsion

→ aggregate function

```
a.sum()
28
a.min()
0
a.max()
```

7

```
a.cumsum()
    array([ 0,  1,  3,  6, 10, 15, 21, 28])
a.mean()
    3.5
```

correlation function