▼ 1D ARRAY

```
import numpy as np
  a=np.array([1,2,3,4,5,6])
       array([1, 2, 3, 4, 5, 6])
  a.shape
       (6,)
  len(a)
       6
  a.ndim
  a.size
       6
  a.dtype
       dtype('int64')

→ array of 0

  b=np.zeros(4)
       array([0., 0., 0., 0.])
▼ array of 1
  c=np.ones(4)
       array([1., 1., 1., 1.])
  d=np.arange(10,20,2)
       array([10, 12, 14, 16, 18])
  e=np.linspace(0,10,8)
               0. , 1.42857143, 2.85714286, 4.28571429, 5.71428571, 7.14285714, 8.57142857, 10. ])
       array([ 0.

→ arthmetic operation
```

▼ addition

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

```
▼ subtraction
       array([-5, -5, -5, -5, -5])
▼ multiplication
  a*a1
       array([ 0, 6, 14, 24, 36])

→ division

  a/a1
       array([0.
                  , 0.16666667, 0.28571429, 0.375 , 0.44444444])
  np.exp(a1)
       \verb"array" ([ \ 148.4131591 \ , \ \ 403.42879349 \ , \ 1096.63315843 \ , \ 2980.95798704 \ ,
              8103.08392758])
  np.sqrt(a)
       array([0. , 1. , 1.41421356, 1.73205081, 2.
▼ comparsion
  a==a1
       array([False, False, False, False])
       array([False, False, False, False, True])
aggregate function
  a.sum()
  a.min()
  a.max()
       4
  a.cumsum()
       array([ 0, 1, 3, 6, 10])
  a.mean()
   _→ 2.0
```

→ correlation cofficient

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