```
import numpy as np
numpy operations
arr = np.arange(0,10)
print(arr)
print(arr+arr)
print(arr*arr)
print(arr-arr)
print(arr/arr)
print(1/arr)
print(arr**3)
    [0 1 2 3 4 5 6 7 8 9]
     [ 0 2 4 6 8 10 12 14 16 18]
    [ 0 1 4 9 16 25 36 49 64 81]
     [0 0 0 0 0 0 0 0 0]
     [nan 1. 1. 1. 1. 1. 1. 1. 1.]
                                      0.33333333 0.25
                                                            0.2
            inf 1.
                           0.5
     0.16666667 0.14285714 0.125
                                      0.11111111
               8 27 64 125 216 343 512 729]
    <ipython-input-2-95cdb3e6d3d1>:6: RuntimeWarning: invalid value encountered in true_d
      print(arr/arr)
    <ipython-input-2-95cdb3e6d3d1>:7: RuntimeWarning: divide by zero encountered in true_
      print(1/arr)
universal array functions
square root
print(np.sqrt(arr))
                     1.41421356 1.73205081 2.
                                                            2,23606798
     2.44948974 2.64575131 2.82842712 3.
e^n
```

```
print(np.exp(arr))

[1.000000000e+00 2.71828183e+00 7.38905610e+00 2.00855369e+01
    5.45981500e+01 1.48413159e+02 4.03428793e+02 1.09663316e+03
    2.98095799e+03 8.10308393e+03]
```

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