```
[65] #np.cumprod(): cummulative product
     #used to calculate the cumulative product of array elements along a specified axis or across all axes
     import numpy as np
     a=np.array([1,2,3,4]) # 1D array
     np.cumprod(a)  #gives cummulative product
```

```
array([ 1,  2,  6, 24])
```

```
b=np.arange(10,21) #range of values from 10 to 20
np.cumprod(b)
```

```
array([          10,          110,         1320,        17160,
          240240,       3603600,      57657600,     980179200,
     17643225600,  335221286400, 6704425728000])
```

```
[70] b = np.arange(10).reshape(2,5)
     np.cumprod(b)
```

```
array([0, 0, 0, 0, 0, 0, 0, 0, 0, 0])
```

```
[72] np.cumprod(b, axis=0) #along axis 0
```

```
array([[ 0,  1,  2,  3,  4],
       [ 0,  6, 14, 24, 36]])
```

```
[74] np.cumprod(b, axis=1) #along axis 1
```

```
array([[    0,     0,     0,     0,     0],
       [    5,    30,   210,  1680, 15120]])
```

```
[75] a=np.array([[1,2,3,4],[5,6,7,8]]) # 2D array
     np.cumprod(a)
```

```
array([    1,     2,     6,    24,   120,   720,  5040, 40320])
```

```
[76] np.cumprod(a, axis=0) #along axis =0
```

```
array([[ 1,  2,  3,  4],
       [ 5, 12, 21, 32]])
```

```
np.cumprod(a, axis=1) #along axis =0
```

```
array([[   1,    2,    6,   24],
       [   5,   30,  210, 1680]])
```