In [9]:
```
import numpy as np
```

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

cond=a%5==0
temp=a[cond]
print(temp)
```

```
[ 5 10 15]
```

In [11]:
```
print("Values of even numbered rows: \n",a[0::2])

print("\nValues of odd numbered rows: \n",a[1::2])
```

```
Values of even numbered rows:
 [[ 1  2  3  4  5]
 [11 12 13 14 15]]

Values of odd numbered rows:
 [[ 6  7  8  9 10]]
```

In [12]:
```
a=np.array([ [1,2,3], [4,5,6], [7,8,9] ])
b=np.array([ [3,2,7], [4,5,2], [5,3,1]])
c=np.array([ [1,2,3], [4,5,6], [7,8,9] ])

t= (np.dot(a, b+c)) + (np.dot(b, a+c)) + (np.dot(c, a+b))
print(t)
```

In [12]:
```
a=np.array([ [1,2,3], [4,5,6], [7,8,9] ])
b=np.array([ [3,2,7], [4,5,2], [5,3,1]])
c=np.array([ [1,2,3], [4,5,6], [7,8,9] ])

t= (np.dot(a, b+c)) + (np.dot(b, a+c)) + (np.dot(c, a+b))
print(t)
```

```
[[232 258 280]
 [332 362 400]
 [448 480 532]]
```

In [13]:
```
a=np.array([ [1,2,3], [4,5,6], [7,8,9] ])

print("Sum of row wise maximum: ",a.max(axis=1).sum())
print("Sum of col wise minimum: ",a.min(axis=0).sum())
```

```
Sum of row wise maximum:  18
Sum of col wise minimum:  6
```

In [8]:
```
a=np.linspace(0,1,100)
print("\nSign function values with the intervals 0.01: \n",np.sign(a))
```

```
Sign function values with the intervals 0.01:
 [0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
 1. 1. 1. 1.]
```