In [45]:

```
import numpy as np
a=np.zeros(3,dtype=int)
print(a)
```

```
[0 0 0]
```

In [4]:

```
a=np.zeros([3,3])
print(a)
```

```
[[0. 0. 0.]
 [0. 0. 0.]
 [0. 0. 0.]]
```

In [6]:

```
b=np.ones([3,3])
print(b)
```

```
[[1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]]
```

In [8]:

```
a=np.array([1,2,3])
for i in a:
    print(i)
```

```
1
2
3
```

In [32]:

```
import pandas as pd
import numpy as np
b= []
a=int(input("Size of array:"))
for i in range(a):
    x=int(input("Element:"))
    b.append(x)
b= np.array(b)
print(np.floor(b))
```

```
Size of array:3
Element:1
Element:2
Element:3
[1. 2. 3.]
```

In [38]:

```
a=np.array([1,2,5,3,4])
print(a)
b=np.count_nonzero(a)
print(b)
```

```
[1 2 5 3 4]
5
```

In [31]:

```
import collections
x = np.array([1,2,3,4,5,1,2,1,9,1])
print("Original array:")
counter = collections.Counter(x)
print(counter)
```

```
Original array:
Counter({1: 4, 2: 2, 3: 1, 4: 1, 5: 1, 9: 1})
```

In [39]:

```
a=np.array([1,2,5,3,4])
print(a)
b=np.count_nonzero(a==2)
print(b)
```

```
[1 2 5 3 4]
1
```

In [40]:

```
a=np.array([1,2,5,3,4])
print(a)
b=np.count_nonzero(a<=4)
print(b)
```

```
[1 2 5 3 4]
4
```

In [42]:

```
a=np.array([1,4,2,7,8,4,5,6,10])
print(a)
np.max(a)
```

```
[ 1  4  2  7  8  4  5  6 10]
```

Out[42]:

```
10
```

In [44]:

```
np.min(a)
```

Out[44]:

```
1
```