In [2]:

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

```
[0 0 0]
```

In [8]:

```
import numpy as np
a=np.ones((3,2),dtype=int)
print(a)
```

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

In [12]:

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

```
1
2
3
```

In [28]:

```
import numpy as np
my_array=[]
a=int(input("Enter size"))
for i in range(a):
    my_array.append(input("Enter the value"))
print(my_array)
```

```
Enter size3
Enter the value1
Enter the value2
Enter the value3
['1', '2', '3']
```

import collections, numpy a = numpy.array([0, 3, 0, 1, 0, 1, 2, 1, 0, 0, 0, 0, 1, 3, 4]) counter = collections.Counter(a)

In [30]:

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

```
Counter({0: 7, 1: 4, 3: 2, 2: 1, 4: 1})
```

In [32]:

```
a = np.array([2, 3, 4, 5, 3, 3, 5, 4, 7, 8, 3])
print('Numpy Array:')
print(a)
c = np.count_nonzero(a == 3)
print(c)
```

```
Numpy Array:
[2 3 4 5 3 3 5 4 7 8 3]
4
```

In [35]:

```
x = np.array([1,2,3,4,5,1,2,1,9,1])
print(np.count_nonzero(x < 4))
```

```
7
```

In [38]:

```
x = np.array([1,2,3,4,5,1,2,1,9,1])
print(2 in x)
```

```
True
```

In [39]:

```
x = np.array([1,2,3,4,5,1,2,1,9,1])
max=np.amax(x)
min=np.amin(x)
print(max)
print(min)
```

```
9
1
```

In [ ]:

```

```