

In [6]:

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

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

In [2]:

```
b = np.ones(3, dtype = int)
print(b)
```

```
[1 1 1]
```

In [9]:

```
c=np.array([1,2,3,4])
print(c)
for i in c:
    print(i)
```

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

In [5]:

```
a = np.zeros(9, dtype = int).reshape(3,3)
print(a)
```

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

In [22]:

```
d=[]
n=int(input("enter range"))
for i in range(0,n):
    l=int(input("enter values"))
    d.append(l)
print(d)
```

```
enter range3
enter values2
enter values1
enter values3
[2, 1, 3]
the array
[2, 1, 3]
```

In [23]:

```
d
```

Out[23]:

```
[2, 1, 3]
```

In [24]:

```
x=np.array([1,2,3,4,5,6,7,1,4,3])
```

In [27]:

```
import collections
print("Original array:")
print(x)
counter = collections.Counter(x)
print(counter)
```

Original array:

```
[1 2 3 4 5 6 7 1 4 3]
```

```
Counter({1: 2, 3: 2, 4: 2, 2: 1, 5: 1, 6: 1, 7: 1})
```

In [28]:

```
np.count_nonzero(x == 1)
```

Out[28]:

```
2
```

In [30]:

```
3 in x
```

Out[30]:

```
True
```

In [31]:

```
max(x)
```

Out[31]:

```
7
```

In [32]:

```
min(x)
```

Out[32]:

```
1
```

In []: