```
In [4]:
import numpy as np
a = np.zeros(3,dtype = int)
print(a)
[0 0 0]
In [7]:
import numpy as np
a = np.zeros([3,3],dtype = int)
print("matrix 3*3")
print(a)
matrix 3*3
[[0 0 0]
 [0 0 0]
 [0 0 0]]
In [5]:
import numpy as np
a = np.ones([3,3],dtype = int)
print(a)
[[1 1 1]
[1 1 1]
[1 1 1]]
In [9]:
import numpy as np
a = np.array([1, 2, 3, 4, 5])
print(a)
[1 2 3 4 5]
In [45]:
a = np.array([10,20,30,40,50,60])
for i in a:
   print(i)
10
20
30
40
50
60
In [ ]:
In [21]:
import collections
arr = np.array([2,5,2,5,4,5,2,2,4,5,6,6,9,8,7,8,4,5,2,3,7,7,5,4,8,9,5,])
print("array:")
b = collections.Counter(arr)
print(b)
4
Counter({5: 7, 2: 5, 4: 4, 8: 3, 7: 3, 6: 2, 9: 2, 3: 1})
In [34]:
arr = np.array([2,5,5,4,5,4,5,6,6,9,8,7,8,4,5,2,3,7,7,5,4,8,9,5])
np.count_nonzero(arr == 5)
Out[34]:
```

```
In [41]:
arr = np.array([2,5,5,4,5,4,5,6,6,9,8,7,8,4,5,2,3,7,7,5,4,8,9,5])
np.count_nonzero(arr < 4)

*
Out[41]:
3
In [42]:
arr = np.array([2,5,4,6,1,3,2,5,1,8,7,9,8,9,7,9])
np.max(arr)
Out[42]:
9
In [43]:
arr = np.array([2,5,4,6,1,3,2,5,1,8,7,9,8,9,7,9])
np.min(arr)
Out[43]:
1
In []:</pre>
```