```
In [1]:
import numpy as np
a=np.zeros(3,dtype=int)
print(a)
[0 0 0]
In [2]:
import numpy as np
a=np.ones(3,dtype=int)
print(a)
[1 1 1]
In [9]:
import numpy as np
a=np.array([1,2,3])
print(a)
[1 2 3]
In [11]:
import collections
x=np.array([1,2,3,4,5,1,2,1,9,1])
print("original array",x)
counter=collections.Counter(x)
print(counter)
original array [1 2 3 4 5 1 2 1 9 1]
Counter({1: 4, 2: 2, 3: 1, 4: 1, 5: 1, 9: 1})
In [12]:
import collections
x = np.array([1,2,3,4,5,1,2,1,9,1])
print("Original array:")
counter = collections.Counter(x)
print(counter)
y=np.count_nonzero(x==2)
print(y)
Original array:
Counter({1: 4, 2: 2, 3: 1, 4: 1, 5: 1, 9: 1})
In [18]:
p=np.array([1,2,3,4,5,6])
print("maximum element",max(p))
print("minimum element",min(p))
maximum element 6
minimum element 1
In [30]:
m=np.arange(10).reshape(2,5)
print(m)
[[0 1 2 3 4]
[5 6 7 8 9]]
In [27]:
print(m<4)
[[ True True True False]
 [False False False False]]
In [31]:
```

localhost:8888/notebooks/num.py#

print(np.count\_nonzero(m<4))</pre>

4

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In [42]:
b=np.array([1,2,3,3,3,3,4,5,6,7,8,9])
print(b)
c=0
for i in b:
    if i==3:
        c=c+1
print("element occured is",c,"times")

[1 2 3 3 3 3 4 5 6 7 8 9]
element occured is 4 times

In []:
```