```
In [1]: 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((3,3),dtype=int)
        print(b)
        [[1 1 1]
         [1 1 1]
         [1 1 1]]
In [3]: c=np.array([1,2,3,4,5])
        for i in c:
            print(i)
        1
        2
        3
        4
        5
In [4]: |g=int(input("enter the size:"))
        n=np.zeros(g,dtype=int)
        for i in range(g):
            h=int(input("enter value:"))
            n[i]=h
        print(n)
        enter the size:3
        enter value:1
        enter value:2
        enter value:3
        [1 2 3]
In [5]: import collections as c1
In [6]: x=np.array([1,2,3,4,5,6,7,8])
        y=c1.Counter(x)
        print(y)
        Counter({1: 1, 2: 1, 3: 1, 4: 1, 5: 1, 6: 1, 7: 1, 8: 1})
In [7]: dic={}
        for i in x:
            if i not in dic:
                dic[i]=1
            else:
                dic[i]+=1
        print(dic)
        {1: 1, 2: 1, 3: 1, 4: 1, 5: 1, 6: 1, 7: 1, 8: 1}
```

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In [8]: #a1=int(input())
         b1=np.count_nonzero(x==2)
         print(b1)
          1
 In [9]: b2=np.count_nonzero(x<4)</pre>
          print(b2)
          3
In [10]: print(min(x))
          1
In [11]: print(max(x))
          8
In [12]: x1=np.array([1,2,3,4,5,6])
          for i in range(4):
             n1=int(input("enter value"))
             h1=n1 in x1
             print(h1)
          enter value1
          True
          enter value2
          True
          enter value3
          True
          enter value10
          False
In [16]: y1=np.array([1,2,3,4,5,6,7,8,9,1,1,1,1,2,2,2,3,3,3,4,4,4,5,5,5])
         y2=c1.Counter(y1)
          print(y2)
          print([a for a,b in y2.items() if b<4])</pre>
          Counter({1: 5, 2: 4, 3: 4, 4: 4, 5: 4, 6: 1, 7: 1, 8: 1, 9: 1})
          [6, 7, 8, 9]
 In [ ]:
```

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