

#

ASSIGNMENT:-3

In []:

1.WAP TO COUNT THE NO OF ELEMENTS ARE EVEN IN A LIST

In [2]:

```
L= [1,2,3,4,5]
even_count= 0
for num in L:
    if num % 2 == 0:
        even_count += 1
print("Even numbers in the list: ", even_count)
```

Even numbers in the list: 2

In []:

2.WAP TO PRINT ALL NON ZERO ELEMENTS LEFT SIDE IN A LIST AND ALL ZEROS IN RIGHT SIDE **and** all non zeros on the left side.

In [3]:

```
L=[1,0,2,0,3,0,0,5,6]
L1=[]
for i in L:
    if(i>0):
        L1.append(i)
for i in L:
    if(i==0):
        L1.append(i)
print(L1)
```

[1, 2, 3, 5, 6, 0, 0, 0, 0]

In []:

3.WAP TO FIND THE MAXIMUM ELEMENT OF A LIST**

In [4]:

```
num = [10, 20, 4, 45, 99]
print(max(num))
```

In []:

4.WAP TO FIND THE FREQUENCY OF CHARACTER IN A LIST**

In [6]:

```
l=[1,0,2,0,3,0,0,5,6,11]
c=0
n=int(input("enter the no for frequency testing: "))
for i in l:
    if(n==i):
        c+=1
print("frequency of the element",n,'is:',c)
```

enter the no for frequency testing: 0
frequency of the element 0 is: 4

In []:

In []:

5.WAP TO SEARCHING A ELEMENT FROM A LIST**

In [7]:

```
L=[2,58,95,999,65,32,15,1,7,45]
n=int(input("Enter the number to be searched : "))
if n in L:
    print("Item found at the Position : ",L.index(n)+1)
else:
    print("Item not found in list")
```

Enter the number to be searched : 95
Item found at the Position : 3

In []:

6.SORTING THE LIST OF ELEMENT**

In [8]:

```
l=[1,4,2,8,5,7]
l.sort()
print(l)
```

[1, 2, 4, 5, 7, 8]

In []:

7.WAP TO DELETE ALL DUPLICATE ELEMENT FROM THE LIST **

In [9]:

```
l= [1, 2, 4, 2, 1, 4, 5]
print("Original List: ", l)
res = [*set(l)]
print("List after removing duplicate elements: ", res)
```

Original List: [1, 2, 4, 2, 1, 4, 5]
List after removing duplicate elements: [1, 2, 4, 5]

In []:

8.WAP TO FIND THE COMMON ELEMENTS BETWEEN TWO LIST AND APPEND THE ELEMENT INTO THE THIRD list

In [11]:

```
l1=[1,2,3,4,5]
l2=[4,5,6,7,8]
l3=[]
for i in l1:
    if i in l2:
        l3.append(i)
print(l3)
```

[4, 5]

In []:

9.WAP TO COUNT THE NO OF PAIRS ARE EVEN.

In [12]:

```
T=((2,4),(1,3),(5,6),(8,10))
count = 0
for i, j in T:
    if(i%2==0 and j%2== 0):
        count += 1
print('Total pairs such that both are even =', count)
```

Total pairs such that both are even = 2

In []:

10.WAP TO SORTING THE ELEMENT IN ASSCENDING ORDER ACCORDING THE 2ND POSITION ELEMENT OF TUPLE.

In [14]:

```
def last(n):  
    return n[-1]  
def sort(tuples):  
    return sorted(tuples, key=last)  
a=[(1,2),(2,1),(3,4),(5,3)]  
print("Sorted:")  
print(sort(a))
```

Sorted:

```
[(2, 1), (1, 2), (5, 3), (3, 4)]
```

In []:

11. Wap to print the list after removing all even nos.

In [15]:

```
l = [2,3,4,7,9,11,14]  
for i in l:  
    if(i%2 == 0):  
        l.remove(i)  
print ("list after removing EVEN numbers:",l)
```

list after removing EVEN numbers: [3, 7, 9, 11]

In []:

12. Wap to remove all occurrences of an element a list.

In [16]:

```
mylist=[1,2,3,4,2,2,3]  
valueTobeRemoved=2  
mylist=[value for value in mylist if value!=valueTobeRemoved]  
print(mylist)
```

[1, 3, 4, 3]

In []: