

1. Write a Python program to find sum of elements in list?

```
In [2]: 1 l1=[]
        2 sum=0
        3 n=int(input('enter the number of element '))
        4 for i in range(n):
        5     ele=float(input('enter the elements '))
        6     l1.append(ele)
        7 print(l1)
        8 for i in range(n):
        9     sum =sum+l1[i]
       10 print('the sum of all elements are: ',sum)
       11
       12
```

```
enter the number of element 5
enter the elements 4
enter the elements 5
enter the elements 7
enter the elements 5
enter the elements 4
[4.0, 5.0, 7.0, 5.0, 4.0]
the sum of all elements are: 25.0
```

2. Write a Python program to Multiply all numbers in the list?

In [3]:

```
1 l2=[]
2 m=1
3 n=int(input('enter the number of element '))
4 for i in range(n):
5     ele=float(input('enter the elements '))
6     l2.append(ele)
7 print(l2)
8 for i in range(n):
9     m=m*l2[i]
10 print('the multiplication of all number is: ',m)
```

enter the number of element 4

enter the elements 3

enter the elements 4

enter the elements 5

enter the elements 6

[3.0, 4.0, 5.0, 6.0]

the multiplication of all number is: 360.0

3. Write a Python program to find smallest number in a list?

In [4]:

```
1 l3=[]
2 n=int(input('enter the number of element '))
3 for i in range(n):
4     ele=float(input('enter the elements '))
5     l3.append(ele)
6 print(l3)
7 print('the smallest number in list : ',min(l3))
8
9
```

```
enter the number of element 5
enter the elements 56
enter the elements 4
enter the elements 3
enter the elements 67
enter the elements 8
[56.0, 4.0, 3.0, 67.0, 8.0]
the smallest number in list :  3.0
```

4. Write a Python program to find largest number in a list?

In [7]:

```
1 l4=[]
2 n=int(input('enter the number of element '))
3 for i in range(n):
4     ele=float(input('enter the elements '))
5     l4.append(ele)
6 print(l4)
7 print('the largest number in list : ',max(l4))
8
```

```
enter the number of element 5
enter the elements 45
enter the elements 6
enter the elements 76
enter the elements 75
enter the elements 4
[45.0, 6.0, 76.0, 75.0, 4.0]
the largest number in list :  76.0
```

5. Write a Python program to find second largest number in a list?

```
In [18]: 1 15=[]
          2 n=int(input('enter the number of element '))
          3 for i in range(n):
          4     ele=float(input('enter the elements '))
          5     15.append(ele)
          6 print(15)
          7 15.sort()
          8 print(' second largest number in a list: ',15[n-2])
          9
         10
         11
         12
         13
```

```
enter the number of element 4
enter the elements 56
enter the elements 54
enter the elements 87
enter the elements 32
[56.0, 54.0, 87.0, 32.0]
second largest number in a list: 56.0
```

6. Write a Python program to find N largest elements from a list?

In [2]:

```
1 l6=[]
2 n=int(input('enter the number of element '))
3 for i in range(n):
4     ele=float(input('enter the elements '))
5     l6.append(ele)
6 l6.sort(reverse=True)
7 N=int(input('enter how many largest elements you want to print in list'))
8 print(l6[:N])
```

```
enter the number of element 5
enter the elements 45
enter the elements 54
enter the elements 34
enter the elements 43
enter the elements 67
enter how many largest elements you want to print in list3
[67.0, 54.0, 45.0]
```

7. Write a Python program to print even numbers in a list?

In [3]:

```
1 l7=[]
2 n=int(input('enter the number of element '))
3 for i in range(n):
4     ele=float(input('enter the elements '))
5     l7.append(ele)
6 for i in l7:
7     if i%2==0:
8         print(i)
9
```

```
enter the number of element 6
enter the elements 43
enter the elements 45
enter the elements 32
enter the elements 4
enter the elements 35
enter the elements 76
32.0
4.0
76.0
```

8. Write a Python program to print odd numbers in a List?

In [4]:

```
1 l8=[]
2 n=int(input('enter the number of element '))
3 for i in range(n):
4     ele=float(input('enter the elements '))
5     l8.append(ele)
6 for i in l8:
7     if ((i%2)!=0):
8         print(i)
9
```

```
enter the number of element 6
enter the elements 45
enter the elements 44
enter the elements 34
enter the elements 33
enter the elements 67
enter the elements 66
45.0
33.0
67.0
```

9. Write a Python program to Remove empty List from List?

In [15]:

```
1 l9=[4,5,[],76,[4,5,6],[]]
2 l9=[i for i in l9 if i!=[]]
3 print(l9)
4
```

```
[4, 5, 76, [4, 5, 6]]
```

10. Write a Python program to Cloning or Copying a list?

```
In [19]: 1 import copy
          2 l10=[4,5,6,7]
          3 l11=copy.copy(l10)
          4 print(l11)
```

```
[4, 5, 6, 7]
```

11. Write a Python program to Count occurrences of an element in a list?

```
In [22]: 1 l12=[]
          2 n=int(input('enter the number of element '))
          3 for i in range(n):
          4     ele=float(input('enter the elements '))
          5     l12.append(ele)
          6 m=float(input('enter the number to check occurrences '))
          7 count=l12.count(m)
          8 print(f'the number occur {count} times')
```

```
enter the number of element 10
enter the elements 1
enter the elements 2
enter the elements 3
enter the elements 4
enter the elements 4
enter the elements 3
enter the elements 2
enter the elements 1
enter the elements 1
enter the elements 2
enter the number to check occurrences 2
the number occur 3 times
```

```
In [ ]: 1
```


