

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

Ans:

```
7]: lst = []
n = int(input("Enter number of elements : "))
for i in range(0, n):
    ele = int(input())
    lst.append(ele)
    total = sum(lst)
print("Elements is list are : ",lst)
print("Sum of elements in list : ",total)

Enter number of elements : 3
1
2
3
Elements is list are : [1, 2, 3]
Sum of elements in list : 6
```

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

Ans:

```
10]: import numpy
lst1 = []
n1 = int(input("Enter number of elements : "))
for i in range(0, n1):
    ele1 = int(input())
    lst1.append(ele1)
print("Elements is list are : ",lst1)
result1 = numpy.prod(lst1)
print("Multiplication of elements in list :",result1)

Enter number of elements : 3
1
2
3
Elements is list are : [1, 2, 3]
Multiplication of elements in list : 6
```

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

Ans:

```
12]: lst2 = []
n2 = int(input("Enter number of elements : "))
for i in range(0, n2):
    ele2 = int(input())
    lst2.append(ele2)
print("Elements is list are : ",lst2)
print("Smallest element in list is:", min(lst2))

Enter number of elements : 5
6
8
46
2
4
Elements is list are : [6, 8, 46, 2, 4]
Smallest element in list is: 2
```

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

Ans:

```
13]: lst3 = []
n3 = int(input("Enter number of elements : "))
for i in range(0, n3):
    ele3 = int(input())
    lst3.append(ele3)
print("Elements is list are : ",lst3)
print("Largest element in list is:", max(lst2))

Enter number of elements : 5
6
8
46
2
4
Elements is list are : [6, 8, 46, 2, 4]
Largest element in list is: 46
```

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

Ans:

```
] : lst4 = []
n4 = int(input("Enter number of elements : "))
for i in range(0, n4):
    ele4 = int(input())
    lst4.append(ele4)
    lst4.sort()
print("Elements is list are : ",lst4)
print("Second largest element is:", lst4[-2])

Enter number of elements : 6
1
2
3
4
5
6
Elements is list are : [1, 2, 3, 4, 5, 6]
Second largest element is: 5
```

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

Ans:

```
] : lst5 = []
n5 = int(input("Enter number of elements : "))
for i in range(0, n5):
    ele5 = int(input())
    lst5.append(ele5)
    lst5.sort()
print("Elements is list are : ",lst5)
m = int(input("Number of elements : "))
print("N largest elements are:", lst5[-m:])

Enter number of elements : 5
8
4
7
98
5
Elements is list are : [4, 5, 7, 8, 98]
Number of elements : 2
N largest elements are: [8, 98]
```

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

Ans:

```
] : lst6 = []
n6 = int(input("Enter number of elements : "))
for i in range(0, n6):
    ele6 = int(input())
    lst6.append(ele6)
print("Elements is list are : ",lst6)
print("Even Numbers in the list are : ")
for num in lst6:
    if num % 2 == 0:
        print(num, end = " ")

Enter number of elements : 5
1
2
3
4
5
Elements is list are : [1, 2, 3, 4, 5]
Even Numbers in the list are :
2 4
```

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

Ans:

```
1]: lst7 = []
n7 = int(input("Enter number of elements : "))
for i in range(0, n7):
    ele7 = int(input())
    lst7.append(ele7)
print("Elements is list are : ",lst7)
print("Odd Numbers in the list are : ")
for num in lst7:
    if num % 2 != 0:
        print(num, end = " ")

Enter number of elements : 5
1
2
3
4
5
Elements is list are : [1, 2, 3, 4, 5]
Odd Numbers in the list are :
1 3 5
```

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

Ans:

```
5]: test_list = [5, 6, [], 3, [], [], 9]
print("The original list is : " + str(test_list))
res = list(filter(None, test_list))
print ("List after empty list removal : " + str(res))

The original list is : [5, 6, [], 3, [], [], 9]
List after empty list removal : [5, 6, 3, 9]
```

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

Ans:

```
6]: def Cloning(li1):
    li_copy = li1[:]
    return li_copy

li1 = []
n8 = int(input("Enter number of elements : "))
for i in range(0, n8):
    ele8 = int(input())
    li1.append(ele8)
li2 = Cloning(li1)
print("Original List:", li1)
print("After Cloning:", li2)

Enter number of elements : 5
2
5
4
89
7
Original List: [2, 5, 4, 89, 7]
After Cloning: [2, 5, 4, 89, 7]
```

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

Ans:

```
19]: def countX(lst8, x):  
      count = 0  
      for item in lst8:  
          if (item == x):  
              count = count + 1  
      return count  
lst8 = []  
n9 = int(input("Enter number of elements : "))  
for i in range(0, n9):  
    ele9 = int(input())  
    lst8.append(ele9)  
x = int(input("Enter the number to see its count in the list: "))  
print('{} has occurred {} times'.format(x, countX(lst8, x)))
```

```
Enter number of elements : 10  
1  
2  
2  
2  
5  
4  
5  
4  
5  
5  
Enter the number to see its count in the list: 5  
5 has occurred 4 times
```