## Que:-1 Write a Python Program to find sum of elements in a list?

```
In [6]: 1 #solution:

def number(a):
    sum = 0
    for i in a:
        sum = sum + i
        print("The addition of elements in list is:-",sum)
    a = [25,50,100,150,200]
    number(a)
```

The addition of elements in list is:- 525

#### Que: 2 Write a Python Program to multiply all numbers in the list?

The product of elements is- 180

525

# Que:-3 Write a Python Program to find smallest number in the list?

The smallest number in the list is:- 1

## Que:-4 Write a Python Program to find largest number in the list?

The largest number in the list is:- 6

#### Que:-5 Write a Python Program to find second largest number in the list?

```
In [1]: 1 #solution:-
         2
         3 nums = []
         4 print("Enter 5 Elements (Numbers) for List: ")
         5 for i in range(5):
                nums.append(int(input()))
         7
         8 large = nums[0]
         9 for i in range(5):
                if large<nums[i]:</pre>
         10
        11
                    large = nums[i]
        12
        13 secondLarge = nums[0]
         14 for i in range(5):
        15
                if secondLarge<nums[i]:</pre>
        16
                    if nums[i]!=large:
        17
                        secondLarge=nums[i]
        18
        19 print("Second Largest Number is:-",secondLarge)
         20
```

Enter 5 Elements (Numbers) for List:
5
2
6
3
7
Second Largest Number is:- 6

## Que:-6 Write a Python Program to find N largest elements in the list?

Enter the value:-5
The 5 largest element in the [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] is [10, 9, 8, 7, 6]

#### Que:-7 Write a Python Program to find even numbers in the list?

The even number from range 0 to 50 is [0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50]

#### Que:-8 Write a Python Program to find odd numbers in the list?

The odd number from range 0 to 30 is [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29]

## Que:-9 Write a Python Program to remove empty list from list?

# Que:-10 Write a Python Program to Cloning or Copying a list?

```
In [22]: 1 #solution:-
          2
          3 import copy
          4
          5 def clone():
                in_list = eval(input("Enter a list:"))
          6
          7
                 print(in_list, id(in_list))
                cloned_list = in_list.copy()
          8
                print(cloned_list, id(cloned_list))
          9
         10
         11 clone()
         Enter a list:[5,6,7,8,10,15,17]
         [5, 6, 7, 8, 10, 15, 17] 2511923475840
         [5, 6, 7, 8, 10, 15, 17] 2511923950400
```

## Que:-11 Write a Python Program to count occurences of an element in a list?

```
In [32]: 1 #solution:-
          2
          3 def list1(a):
              for i in a:
          5
                    b = a.count(i)
          6
                    print(f"The count of {i} is {b}")
          7 a = [5,9,5,90,1,90,1,16,25]
          8 list1(a)
        The count of 5 is 2
        The count of 9 is 1
        The count of 5 is 2
        The count of 90 is 2
        The count of 1 is 2
        The count of 90 is 2
        The count of 1 is 2
        The count of 16 is 1
        The count of 25 is 1
```

Enter the number for count:-5
The count of 5 is 2