

Python Programming - 2101CS405

Lab - 5

```
In [ ]: Name : - Vora Yagnik Rajeshbhai
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```

list

01) WAP to find sum of all the elements in List.

```
In [4]:
    limit = int(input("Enter size of List : "))
    a = [int(input("Enter number")) for i in range(limit)]
    sum = 0
    for i in a:
        sum += i

    print("Sum of all number is :",sum)
```

Sum of all number is: 15

02) WAP to find largest element in a List.

```
In [6]: large = a[0]
for i in a:
    if i>large:
        large = i

print("Largest Element of list is ",large)
```

Largest Element of list is 5

03) WAP to split the List into two and append the first part to the end.

04) WAP to interchange first and last elements in list entered by a user.

```
In [20]: a[0],a[-1] = a[-1],a[0]
    print(a)
    [9, 23, 68, 54, 33, 88, 54, 25]
```

05) WAP to interchange the elements on two positions entered by a user.

```
In [7]: first = int(input("Enter first position : "))
    second = int(input("Enter second position : "))
    a[first-1],a[second-1] = a[second-1],a[first-1]
    print(a)
[1, 4, 3, 2, 5]
```

06) WAP to reverses the list entered by user.

```
In [11]: a = a[::-1]
# a.reverse()
print(a)

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

07) Python program to remove multiple elements from a list using list comprehension

```
In [32]: remove = [25,54,88]
    new_list = [i for i in a if i not in remove]
    print(new_list)

[23, 33, 68, 9]
```

08) Create a list from the specified start to end index of another list.

```
In [34]: start = int(input("Enter start index : "))
  end = int(input("Enter end index : "))
  new_list = a[start:end+1]
  print(new_list)
```

[23, 88, 33, 54, 68]

09) Input comma separated elements, convert into list and print.

```
In [35]: str = input("Enter Comma separated Elements : ")
    a = str.split(",")
    print(a)
    ['1', '2', '3', '4', '5', '6', '7', '8']
```

01) WAP to count Even and Odd numbers in a List.

```
In [40]: odd=0
    even=0
    for i in a:
        i = int(i)
        if i%2==0:
            even+=1
        else:
            odd+=1

print("Odd elemnts count : ",odd)
print("Even elemnts count : ",even)
```

Odd elemnts count : 4 Even elemnts count : 4

02) Python program to find N largest and smallest elements from the list

03) WAP to print duplicates from a list of integers

Duplicate values : [9, 2, 3, 7]