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## Python Programming - 2101CS405

### Lab - 5

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### list

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

```
In [2]: a = [1,2,3,4,5,6,7,8,9,10]
sum = 0

for i in a:
    sum = sum + i
    print("sum : ",sum)
print(a)
```

```
sum : 1
sum : 3
sum : 6
sum : 10
sum : 15
sum : 21
sum : 28
sum : 36
sum : 45
sum : 55
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

**### 02) WAP to find largest element in a List.**

```
In [3]: a = [12,15,56,84,65,78]
print(max(a))
a.sort()
print(a.pop())
```

```
84
84
```

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

```
In [11]: a = [12,15,56,84,65,78]
x = a[0:3]
y = a[3:6]
y.extend(x)
print(y)

[84, 65, 78, 12, 15, 56]
```

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

```
In [17]: x = int(input("X:"))

a[0]=x
a[-1] = x
print(a)

X:10
[10, 15, 56, 84, 65, 10]
```

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

```
In [19]: x = int(input())
y = int(input())

a[x],a[y] = a[y],a[x]
print(a)

1
3
[10, 84, 56, 15, 65, 10]
```

**06) WAP to reverses the list entered by user.**

```
In [21]: a.reverse()
print(a)

[10, 65, 15, 56, 84, 10]
```

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

```
In [28]: y = [i for i in a if (i!=10)]
print(y)

[65, 15, 56, 84]
```

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

```
In [29]: y = a[1:5]
print(y)

[65, 15, 56, 84]
```

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

```
In [31]: x = input()
y = x.split(",")
print(y)

hello,i,am,krish,gohel,from,rajkot
['hello', 'i', 'am', 'krish', 'gohel', 'from', 'rajkot']
```

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

```
In [32]: co = 0
ce = 0

x=[]

for i in range(0,5):
    x.append(int(input("x:")))

for i in x:
    if i%2 == 0:
        ce = ce + 1
    else:
        co = co + 1
print(f"count of even = {ce} , count of odd {co}")

x:12
x:15
x:17
x:82
x:14
count of even = 3 , count of odd 2
```

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

```
In [36]: n = int(input("n:"))
x = [82,14,56,90,47,25]

x.sort()
print("N Min number = ",x[0:n])
print("N Max number = ",x[len(x)-n:len(x)+1])

n:2
N Min number = [14, 25]
N Max number = [82, 90]
```

**### 03) WAP to print duplicates from a list of integers**

```
In [39]: x = [10,54,78,65,10,85,54]
y = []
for i in x:
    if x.count(i) > 1 and (i not in y):
        y.append(i)
print(y)
```

```
[10, 54]
```

```
In [ ]:
```