# Darshan UNIVERSITY

# Python for Data Science - 2305CS303

# Lab - 5

Roll No. : 135

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## 1. WAP to find sum of all the elements in a List.

```
In [1]: l1 = [1,2,3,4,5]
        res = 0
        for i in l1:
            res+=i
        print(res)
```

15

## 2. WAP to find largest element in a List.

```
In [17]: l1 = [1,2,3,4,5]
         max = 0
         for i in l1:
             if i>max:
                 max=i
         print(max)
```

5

## 3. WAP to interchange first and last elements in a list.

```
In [19]: l1 = [10,20,30,40,50]
         first = l1[0]
         last=l1[-1]
         l1[0] = last
         l1[-1] = first
         l1
```

Out[19]:  [50, 20, 30, 40, 10]

## 4. WAP to reverse the list entered by user.

```
In [27]: l1 = [10,20,30,40,50]
         for i in l1[::-1]:
             print(i,end=" ")
```

```
50 40 30 20 10
```

## 5. WAP to print even numbers in a list.

```
In [26]: l5 = [10,11,12,13,14,15,16]
         for i in l5:
             if i%2==0:
                 print(i,end=" ")
```

```
10 12 14 16
```

## 6. WAP to count occurrences of an element in a list.

```
In [35]: l6 = [10,20,30,40,20,20,20,20,30,40,50,60,70]
         k = int(input("Enter Number to Find : "))
         count = 0
         for i in l6:
             if k==i:
                 count+=1
         print(k,"is in List :",count)
```

```
20 is in List : 5
```

## 7. WAP to extract elements with frequency greater than K.

```
In [39]: l6 = [10,1a,1,1,1,1,1,20,30,40,20,20,20,20,30,40,50,60,70]
         k = int(input("Enter Number to Find : "))
         l=[]
         for i in l6:
             res = l6.count(i)
             if res>k and i not in l:
                 l.append(i)
         print(l)
```

```
[1, 20]
```

```
In [49]: l1 = [10,2,30,40,50,70,55]
         max = 0
         secondmax=0
         for i in l1:
           if i>max:
             secondmax=max
             max=i
         for j in l1:
           if j > secondmax or j < max:
             secondmax=i
         print(secondmax)
```

```
55
```

```
In [ ]:
```