

Python for Data Science - 2305CS303

Lab - 5

Roll No. : 111

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

```
In [1]: li = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
total = 0
for i in li:
    total += i
print(total)
```

55

2. WAP to find largest element in a List.

```
In [2]: li = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
maxval = li[0]
for i in li:
    if i > maxval:
        maxval = i
print(maxval)
```

10

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

```
In [3]: li = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
li[0], li[-1] = li[-1], li[0]
print(li)
```

[10, 2, 3, 4, 5, 6, 7, 8, 9, 1]

4. WAP to reverse the list entered by user.

```
In [4]: li = input("Enter list elements separated by space: ").split()
rev = []
for i in range(len(li)-1, -1, -1):
    rev.append(li[i])
print(rev)
```

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

5. WAP to print even numbers in a list.

```
In [5]: li = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
for i in li:
    if i % 2 == 0:
        print(i)
```

```
2
4
6
8
10
```

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

```
In [6]: li = [1, 2, 3, 2, 4, 2, 5, 6, 2]
element = 2
count = 0
for i in li:
    if i == element:
        count += 1
print(count)
```

```
4
```

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

```
In [7]: li = [1, 2, 3, 2, 4, 2, 5, 6, 2, 3, 3, 3]
k = 2
for i in li:
    if li.count(i) > k:
        print(i)
```

2
3
2
2
2
3
3
3