

```
In [2]: #Create a list of 5 numbers. Print the first and last elements using indexing.  
list1=[1,23,43,546,76]  
print("length:",len(list1))  
print(list1[0])  
print(list1[4])
```

```
length: 5  
1  
76
```

```
In [3]: #Print the list in reverse using slicing.  
list2=[12,43,"namu","pooja",54.43]  
print(len(list2))  
print(list2[::-1])
```

```
5  
[54.43, 'pooja', 'namu', 43, 12]
```

```
In [5]: #Print the elements from index 1 to 3 (inclusive).  
list3=[23,43,33.32,[23,"raj","pune"],[21,32]]  
print(len(list3))  
print(list3[1:3])
```

```
5  
[43, 33.32]
```

```
In [8]: #Find the sum of all elements in the list using a for loop.  
ls1=[12,43,54,32,45,23]  
sum=0  
for val in ls1:  
    sum+=val  
    print(sum)
```

```
12  
55  
109  
141  
186  
209
```

```
In [16]: #Count how many even numbers are present in the List.
ls2=[21,32,34,54,67,765,33]
even_no=0
for num in ls2:
    if num%2==0:
        even_no +=1
print("Total even no:",even_no)
```

Total even no: 3

```
In [18]: #Print only the elements at even index positions.
ls=["ram","Nils","rahul","manisha","netra","jyoti","manu"]
print(len(ls))
print(ls[0:7:2])
```

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['ram', 'rahul', 'netra', 'manu']

```
In [20]: ls3=["radha","shyam","rahul","priti","riya"]
for name in ls3:
    print(name.upper())
```

RADHA

SHYAM

RAHUL

PRITI

RIYA

```
In [23]: #Print the Length of the List using len() function.
ls=[231,34,56,7,68,98,32,76,57,34,32,76,67,23,45]
print(len(ls))
```

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```
In [24]: #Replace the 3rd element of the List with a new value.
lis=[1,23,43,12,32,"python","java"]
print(lis)
lis[3]="Data"
print(lis)
```

[1, 23, 43, 12, 32, 'python', 'java']

[1, 23, 43, 'Data', 32, 'python', 'java']

In [ ]: