



Accessing elements of List:

We can access elements of the list either by using index or by using slice operator(:)

1. By using index:

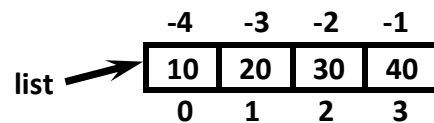
List follows zero based index. ie index of first element is zero.

List supports both +ve and -ve indexes.

+ve index meant for Left to Right

-ve index meant for Right to Left

```
list=[10,20,30,40]
```



```
print(list[0]) ==>10
```

```
print(list[-1]) ==>40
```

```
print(list[10]) ==>IndexError: list index out of range
```

2. By using slice operator:

Syntax:

```
list2= list1[start:stop:step]
```

start ==>it indicates the index where slice has to start

default value is 0

stop ==>It indicates the index where slice has to end

default value is max allowed index of list ie length of the list

step ==>increment value

default value is 1

Eg:

```
1) n=[1,2,3,4,5,6,7,8,9,10]
```

```
2) print(n[2:7:2])
```

```
3) print(n[4::2])
```

```
4) print(n[3:7])
```

```
5) print(n[8:2:-2])
```

```
6) print(n[4:100])
```