

## List iteration

### Iterating a list

list1=

0	1	2	3	4
5	6	7	8	9
-5	-9	-3	-2	-1

Iterating a list means visiting a list or accessing all the list elements in a list one by one. We can also call it as traversing.

We can go reverse also.

Iteration is done using for loop also

Let's see some examples to make a list

```
>>> list1 = [5, 6, 7, 8, 9]
>>> for x in list1:
    print(x)
```

```
5
6
7
8
9
---
```

For loop using range

```
>>> for i in range(len(list1)):
    print(list1[i])
```

```
5
6
7
8
9
```

If we want to start from 2

```
>>> for i in range(2, len(list1)):
    print(list1[i])
```

```
7
8
9
>>>
```

It is not printing element at 0 and 1 that is 5 and it is starting printing from second element that is 7

If we want to print numbers in reverse so, we can print using positive indices also negative indices also.

```
>>> list1 = [5, 6, 7, 8, 9]
>>> for i in range(len(list1)-1, -1, -1):
    print(list1[i])
```

```
9
8
7
6
5
>>>
```

