Iterator

Iterator is a cursor

Iterator object is used read values/items from collection (sequence or non sequence)

Iterator is used for non index based collections and index based collections.

Iterators performs immutable operations

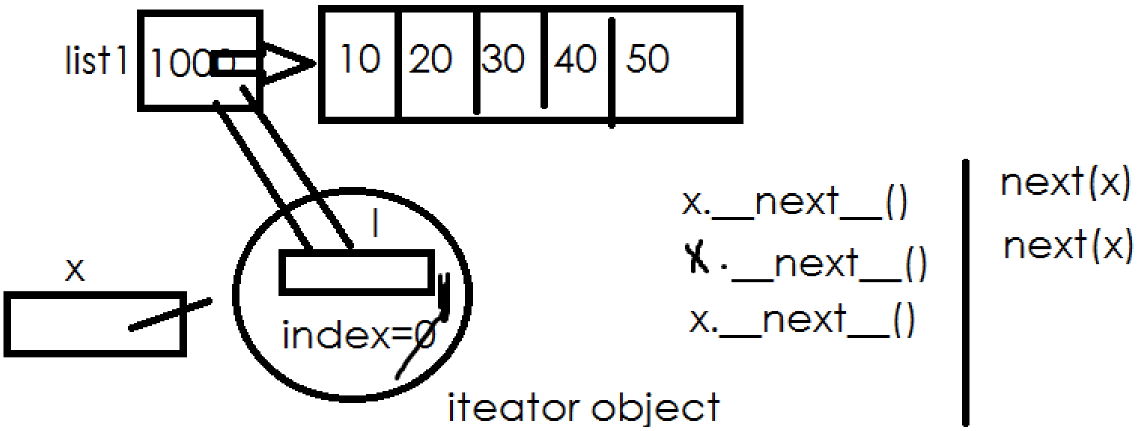
Iterator is forward only and read only

How to create iterator object?

iter(iterable) ➔ this function return s iterator object

```
list1=[10,20,30,40,50]

x=iter(list1)
```



next() : it is a predefined function in python, this function calls next method of iterator, next method of iterator return value from iterable

Example:

```
sales_list=[40000,25000,55000,60000,80000,90000]
a=iter(sales_list)
s1=next(a)
s2=next(a)
s3=next(a)
print(s1,s2,s3)
```

```
for s in a:
   print(s)
```

Output:

```
40000 25000 55000
60000
80000
90000
```

enumerate(iterable, start=0)

Return an enumerate object. iterable must be a sequence, an iterator, or some other object which supports iteration. The __next__() method of the iterator returned by enumerate() returns a tuple containing a count (from start which defaults to 0) and the values obtained from iterating over iterable