**Que.1-Iterating over a list using a loops.**

**Ans.**

For loop is using for purpose iterate list ,and it’s act as a repeatedly displayed.

Example.

List=[1,11,111,1111,11111]

#list iterate through for loop 5 time

For I in range(1,6):

Print(List)

**Que.2-Sorting and Reversing a list using sort(),sorted() and reverse().**

**Ans.**

Sort() – sort() method is using for

Sort’s the list ,and it changes the current list and does not return a new list.

Ex.,

List=[7,6,8,5,1,2,4,8,9]

List.sort() #it sort’s the list

print (List)

Sorted() – sorted() method is using for sort’s the list and it return to new list with present sorted list.

Ex.,

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

#sort’s the list and sorted list return to as a new list

Sorted\_List=sorted(List)

print (Sorted\_List)

Reverse() – reverse() method is using for reversed elements of list.like act as a displayed last element is moved at a first position and first element is moved at a last position.

Ex.,

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

#reverse the list and it’s displayed like as a 10,9,8,7,6,5

List.reverse()

Print(List)

**Que.3-Basic list manipulators:addition,deletion,updating and slicing.**

**Ans.**

* Addition:-
* Append() – add element on the ending of the list.

Ex. ,List=[123,456,789]

List.append(101112)

Print (List)

* Insert() – add element

At the specific index of the list.

Ex., List.insert(987,1)

Print(List)

* Extend() – add two or more element in the list.

Ex.,List.extend(8,10)

Print(List)

* Deletion:-
* Pop() – delete element at a ending of list.

Ex.,List.pop()

* Remove() – delete a specific element of list.

Ex.,List.remove(456)

* Updating:-
* Assign a specific value to at a specific index.

Ex.,List[2]=654

Print (List)

* Slicing:-
* Slicing process perform by extracts a portion of a list.

Ex.,print(List[0:2])