**Collection List Interface:**

* The collection in java is an framework which provide an architecture to store and manipulate the group of object.

OR

* If you want to represent group of individual object as an single entity then we should go for collection
* **Entity in DBMS** can be a real-world object with an existence.
* The collection is container which store the group of ITEM in single unit they are dynamic container so you can add remove data at the run time
* **1)Iterator:**

-Iterator is an interface which provide the facility of iterating the element one by one in forward direction only.

-It is a **root interface** for all the collection classes. every one implements it.

***Cursor in collection interface.***

* Curser are used to get the object one by one from collection.
* There are three types of cursor in collection API.

1. Enumeration
2. Iterator
3. List Iterator.

**1) Enumeration:**

* If you want to get the object one by one from legacy classes then you should use the Enumeration cursor.
* To create the object of Enumeration we have to use Element() of vector class.

**EX: public Vector Element();**

Enumeration e=v. Element();

* Methods Present in Enumeration are.

1. Public Boolean hasMoreElement();
2. Public object nextElement();

The disadvantage of this cursor is it is only applicable for legacy classes and we can only perform the read operation on it.

2) **Iterator**: It provide read and remove facility also

-But it has limitation is like it move in forward direction only.

-**It is a universal cursor applicable anywhere in collection**

**Methods**

1. **Public Boolean hasNext();**
2. **Public object next();**
3. **Public void remove();**

3**)List Iterator: It provide facility of read write add, and set(update)also**

-It is best Iterator for list interface only becz it provide forward as well as reverse

Facility also

**METHOD**

1. Public Boolean hasNext()
2. Public object next();
3. Public void nextIndex();
4. Public Boolean hasPrevious();
5. Public object previous();
6. Public void previousIndex();
7. Public void remove();
8. Public void add();
9. Public void set();

**One of the biggest disadvantage is its only applicable in List Interface.**