22. Collections in Java-Part 1 Java Collections Branework in depth.

Q) What is Java Collections Francework?

Do Collections is nothing but a group of Objects

* Frameworks provide us the wichitecture to manage these "group of Objects"

* present in Java-util package.

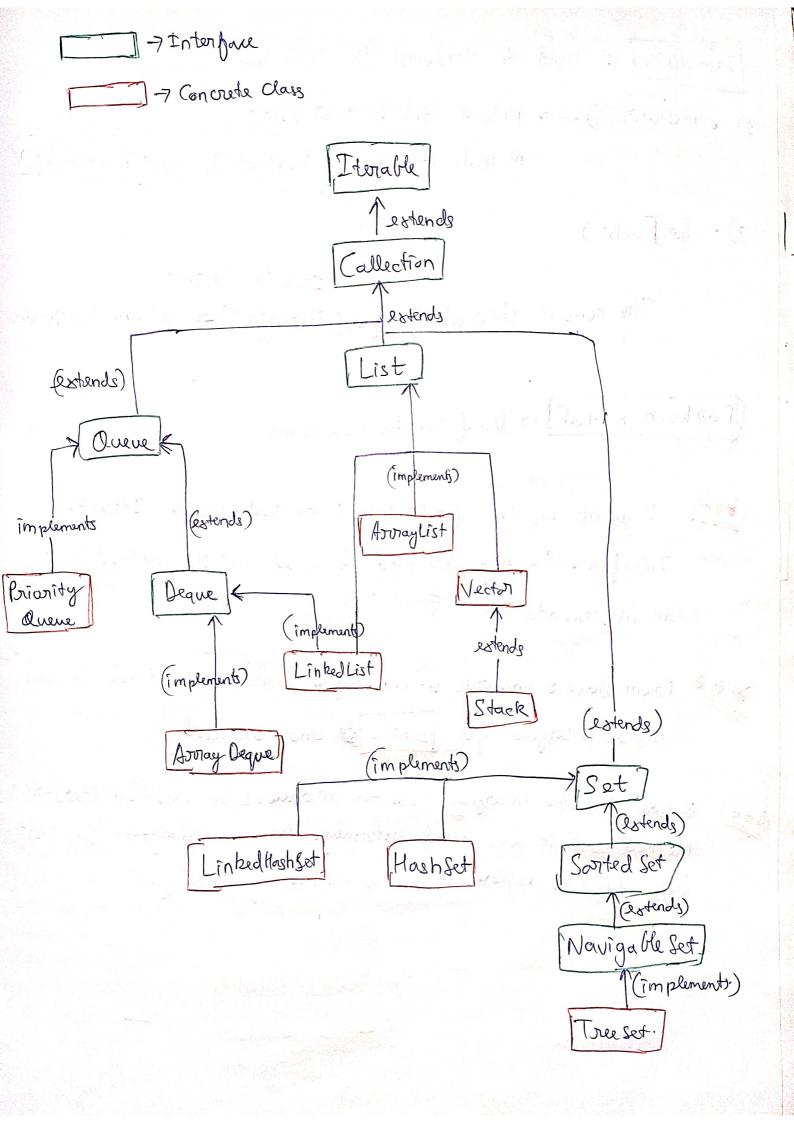
If why did we need JCF[Java Collection Branework]?

A) & Before JCF there was Vector, Attray, Hashtatles only-No common interface, hence methods were hourd to premember.

(allection Hierarchy)

There are two main interfaces

Collection and Map. All the snest of the interfaces on Concrete Class and we tranching from these two Interfaces.



Iteratable : Used to traverse the Collection

1) . iterator () -> Returns the iterator Object.

methods it has has Nest(), nest(), remove()

2). for Each ()

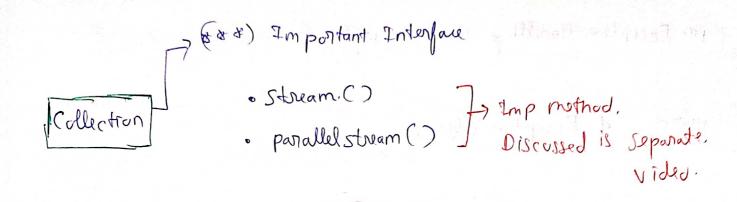
code in Broject The concrete class object [obj. iterator()] of returns the iterator.

(For Each method) -> Use of Landa Expressions.

(800) I went inside for Each () method inside Iteratle Interface. To my surprise I saw that the method had an implementation.

From Java 8 onwards we can define write method implementations inside interface for static of and default

(800) Before Iterable interface, Collection interface still had an iterator() method and it was used normally. The new interface has just ben added to espose the new methods of Herating.



Collection vs Collections.

Collection: It is a part of Java Collection Framework (JCF).

And its an interface which exposes various methods

Collections: It is a utility class and provides static methods, which are used to operate on collections like swapping, reversing, searching, sorting.

Since Its a Utility Class, All the methods in it are static.

and Therefore is any let of the

Methods:

sort()

6 inary Search

reverse

shuffle

Swap

copy

min

max

notate.