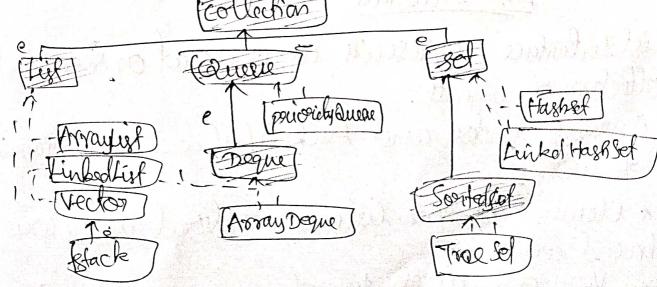
*. A collection is a geroup of objects. * Kollections bramework provides a set of standard utility classes to manage collections. * collections bramework consists of three parts. 2. One inforfaces * concrete implementation * Algorithms such as scorchiis and sorling * A Java collection is a predebined conditecture capable of storing a group of elements and behaving like * A collection is an object or a group.

a group of ather objects as a single which stores

single entity * It is also known as confains object or collection object in Java I Judon la Co Houble J class Collection (Quell pouriely duran



Collection Intertace

Collection - A basic interface that debines the openations that all the classes that maintain toler collections of objects typically emplement.

set - Extends the collection interface for cets that maintain unique element.

sortedsel - Augmouth their elements in sorted andly

List - Collections that require position-oriented operate should be oralid as lists. puplicates are allow

Quelle - Things assunged by the order in they wu to be processed.

Map - A basic interface that defines operations that classes that represent mapping of keys to value typically implement.

Soulod Map - total stre Map einforface for maps that maintain their mappings in the beyords.

List Interface

*List Interface represents an ordered or squeenfal collection of objects.

* Arrayless, vector and Lukeof List are some orangles of light.

* Elements of the lists are ordered using Toro baled ender.

integer index.

* Elements can be inserted at a specific position asuring integer index.

of Any pour outstring elements at on beyond that position are shifted right

a Elements can be seemoved from a specific position. The elements beyond that position are Shelled left.

* A list may contain duplicate elements. * A list may contain multiple null elements.

Array Fist.

*. Array List in Sava is a dynamic array that allows us to store multiple objects of any class or down time or dorta type.

* It is similar to an averay, but there is no

fixed size limit.

* ArrayList class is present in the java. util package and is commonly used for stooning and manipulating collections of objects in an aubitrary order.

* It is a resirable array that can grow on should in the memory wherever needed. It is dynamically created with an ienitial capacity. & It uses a dynamic avoidy intomally for sowing the geroup of demoute, objets, or date. * Arraytist is non-synchronized.