* # Gollection #

- · why collection ?
- · why Array ?
 - · Limitations of an Array?
 - · what is collection?

1 why collection:

to Strok and Single value we go for int x = 10, for two values, int x = 10, 4 = 20; if you want to stook 10,000 values!

So, To over come this poollern Array come into Picture.

* why Array ?

An assay is included collection of fixed number 9 horrogenous data elements.

* limitations of Array

- . fixed in size
- · Array con store himogenous data elements
- In allay ready-made method suppost is not available.

So, To overcome this limitedim collection concept is Collection is one type of contained which stored the group of objects into single variable. Group object mat are stored and manipulated in well marroll . intorduced in jok 1.2 Collection: group 7 indusival
objects represented as a
collection
graph Entity & collection barrowook: To represent a group 7 industral objects as a single entity we need several classes and Interfaces, these are nothing But framework. * Advantages of collection over the Assay 1) Collection is growable in nature @ collection can stook hetelogenous objects 3 In collection ready made method suppos is avalible.

Difference Between Array and Collection

Dosay

Collection

1) Fixed Size

@ memory point not

(3) perferorance point Array recommanded

& Stores homogenous

(5) NO, ready made method

6 Array holds Roth Premitire and objects growable in size

memory point collection

perfernance point collection not recommanded.

stools both homogeneous and hetelogenous.

4es, ready made method suppose avilable.

holds objects not

collection is collections

a group. I individual object as a single entity.

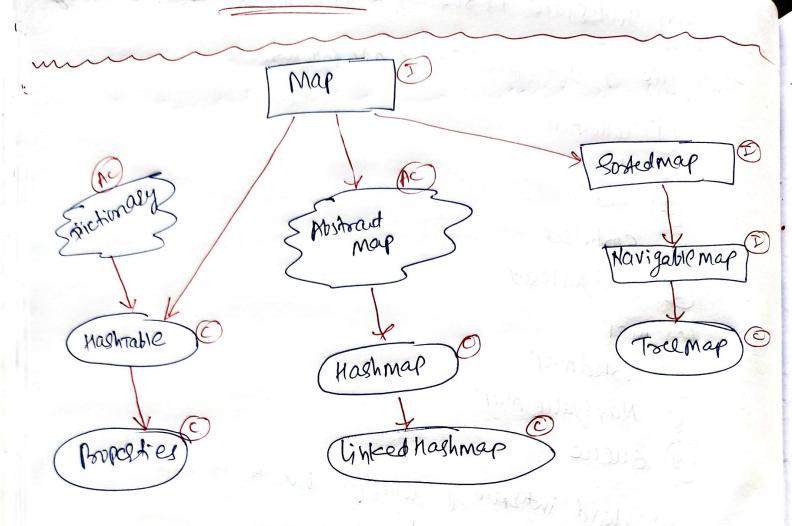
realizage, to alkine several utility methods for collections.

Collection framework & collection framework provider mechanism to store and manipulate the group of elements operations like scarding, sosting, deletion, insertion i et com be prefished éasily on me group of clements using collection. , collection framework consists of following 1) Interfaces @ implementation classes ingesting, deleting, seasching, sorting.... (3) Algorithms (methods) following are the top level interfaces available in collection formeworks. (i) collection @ Map 3 Itelador . Sub classes & collection are used to manage the collection of elements without key-rature subclasses of map interface are used to manage me collection of elements with key and value format. THERestor is used to accept data from the

* collection tyceachy * java.lang. Iterable F collection) & Set Ab stoad Quelle so Ard set Mostrad 2 Eph stoad List Navigable set Privity nashset Toll sed unked Linked USA redos nashset Stack

collection Interface is sout Interface of collection his resally
These are 9 Intelfaces and are follows.
(1) collection
(2) List
(3) Sct
6 Soxled set
(5) Navigallesco
6 mar
(2) Sorded map
(8) Mavigable map
(9) Quelle maner le la
mar is not hild interface of collection but the
. collection interface has bollowing 3 sub interfaces
O List O set
@ set
3 Quelle and properties
. vertor, stack, Dictionally, Marktable and properties
10.000 OX4 (Sec)
100 1000 100 110
man Marigaria
in 1.6 relsion of TDIC.
I'm I was I linked yadionale and Johnson (Come
in ode 1.4

Mar Intelface



collection Intellege methods

- 1) boolean add (object obj)

 Add objects to collection
- 2) int size ()
 potular no o obsert available in collection.
- (3) boolean is prophy ()

 chades whether collection is empty or not

(i) boolean contains (object obj)

checks whether collection has specified objector

(3) Iterator iterator ()
Return Iterator subclass object

6) Object[] to Array()
returns on alray containing all of
returns of collection.

A poolean remove (object obj)

removes fixth occurrence of specified

noticet from collection.

8 void clearci

(9) boolean add AII (collection c).

Adds AII the data of specified adds in the current collection.

(16) boolean contains Hu ("Collection c)

refulns form it current collection.

au me elements of me specified collection.

(1) boolean remove All (Collection ())
Removed all the matching alement
personed all the matching alement
querified collection from cultivariation.

(5) booken refernall (collection c)

removes all the mon matching elements
general collection from custend collection.