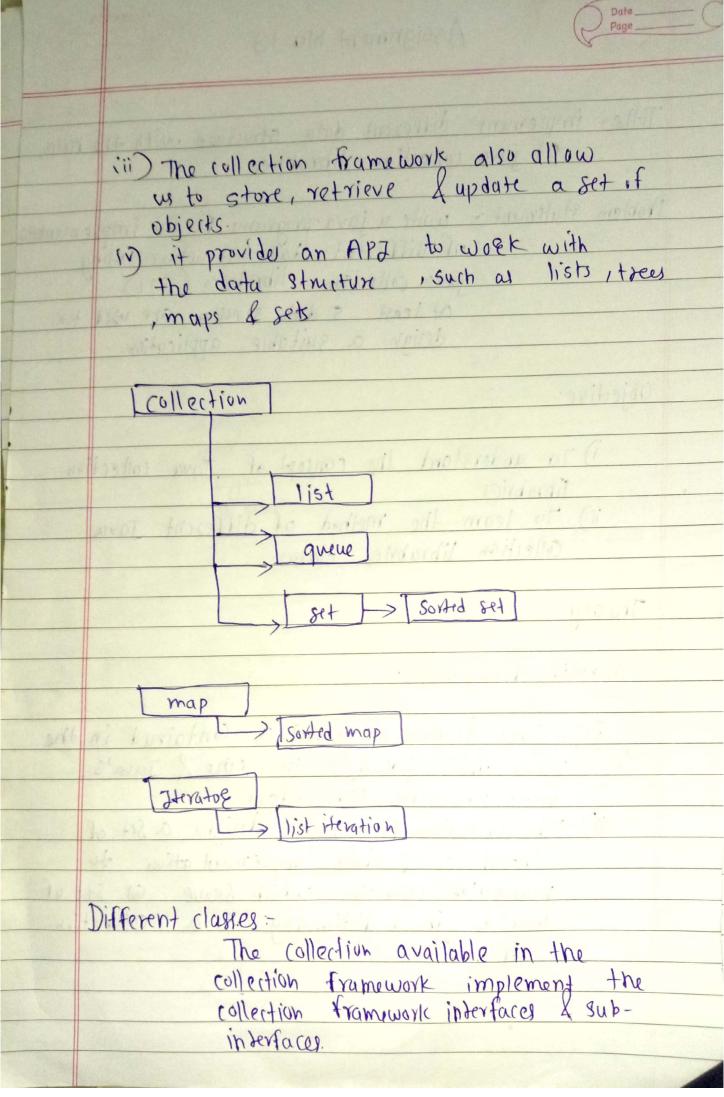
## Assignment No. 13. Title - implement different data structure with the help of java collection libratries Problem Statement - write a java programs for the implementation of different data structure using java collection librubries (STL) at least 5 data structure are used to design a suitable application. Objective : 1) To understand the concept of Java collection librabrics. ii) to learn the method of different Java Collection librabyles classes. Theory: 180 collection framework: i) In java framework which is contained in the Java until packages in one & Java's mut power ful sub-system. ii) The collection framework designs a set of interfaces of their implementation to manipulate collection which serve as set of wards in a dictionary or a collection of mails.



	Date
	class plane of interfaces
	class Name of intertaces
	Abstract Collection reflection
	Abstract List list
	Abstract Queur Queue
	Linked List.
	Amay List  Set
	A bost ract list Set Set
	LIMITO
	Haghset Set Set
	1766364
	Priority Queue Queu Historiable Map
	Stuck List, sevializable
	Vertue List, serializable
	(ido halde) tratbho (i
	Cido Hojdo 1 taolido (i
6	Arrow List: arrow list extends the abstract list class &
1	Array List: array list extends the abstract list class & implements such as list; clavarable of Seriazable.
	Seriazable.
	using arraylist we can create
	dynamic daray in java appir.
	July 1
	Constructors - Constructors
	Associated of list is
3141	1. Arraylist() - The capacity of list is initialised to the den
	ated and solver and
	2. Array List (collection c) :- (reater c list to which element of the speciffic collection)
	element of the speciffic coll
	are added.

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	3 Arraylist (int capacity):  (realer empty list & set capacity  to specified Value.  add() method used to add element in Arraylist.
	rearied value.
	1111 analyted used to add element in Array List.
	add () halling of a
	linked list:
11)	The linkedlist class extends
	Abstract Sequential closs & implements The list interface.
	the list interface.
	Construct on -
	7 1:16:04:04
	2) linked List (collection ()
	9000
	methods =
	i) addfixt (object obj)  ii) addLost (object obj)  iii) getfixt()
	ii) add Lost (object obj)
	(ii) getfixt()
	IV GOTLAND
	of Resume Fix+()
	v) Revert Last ()
	dean publication of support
Ciii	Hashfet: The hashfet class is used to create
	a collection of Store it in a hash table
	each collection refer to a Unique
	value called hugh code.
	and fail a command of the country of the liverity of
A III	Constant with the succession
	Lohlo 200

1	
1	Constructor -
	i) Hughfet() - empty hoghset ii) Haghset (collection () - add element c iii) Haghset (collection () - initialize the capacity
	Hashfet (collection () - add element c
	ii) Hashfel (allection () - add explained the capacity) iii) Hashfel (int capacity) - initialize the capacity of Hashfel
	is) Hoshfet (int cap, float filtratio)
	mit me P
4)	Tree Set():
/	TreeSet(): The tree set class implements the set interface. the sorted elements are stored in
	interface the sorted elements were sind
	this class allow us to access & retrive
	element from a tree in less time.
	element trom a con minima
	constructions: The distance of the construction of the constructio
	i) Tree Set() - will start the clement in
	ascending older.
	ii) Free Set (collection (): builds a tree set, which
	contains a collection of ele
	Sollish airlain in the airlain air air
	to be ad at the modern middle
()	Priority Queue
)	Moningly were the second of th
b)38	principle is used took store the data
	as anding to their priorities.
N N	asanding to there produces.
	embrote stok covered to eving his und

priority Queue implements Queue interface. wethods : 1. pugh() - it is used to pugh element in Ouene 2-pop() · it is used to remove element from Queue. Algorithm: 1) import java. ytil.\*; Define a class Datastructure Define 5 methods for 5 data structures 4) Define main method. Ask were for entre a choice. (all appropriate muthod based on choice Stop. Conclusion = Java collection Librabries Confain different classes & inderfaces that can be used to implement any application. It provides

various predefined method which can be use
to reduce the amount of code in program

Thus we have implemented various classes in Jora collection for various data structure