## CHARLER Assignment no=13 Title - Java Collection Libraries Problem statement. Write a sava program for the implementation of different data structures using Java collection libraries ofleast & data structures are used to design a suitable application Objective - O To understand use of Java collection librare 10 to be able to use Java libraries 3 to use Java collections for implementing different types of data structure Outcome - He will be able to use Java collection librates in an application HIW and 5/W Requirements - Dell optiplex 3020 Hz, Monitor, Keyboard, Mouse, Fedora 20 03, Edipse Theory-The Java collections framework is a set of classes and interfaces that implement commonly reusable collection data structures It works in manner of a library implementation for fundamental collection The framework had to allow different types of collections to work in a similar manner with high degree of interprobability

	classmate
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	Types of Interfaces
	O Collection Interface
	@ List Interface
	0 set
	@ Sorted set
	6 Map
2	@ Map Entry
	1 Sorted Map
	3 Enumeration
	Pseudocode
	no metting and
0	5tack
	algo stack()
10	stack <integer> s1 = new stack &lt; &gt;();</integer>
	print ("I.Push 2.Pop ");
	accept (choice)
	if (choice = = 1) then
	s1. push (new Integer (si nexbInt());
i k	if (choice == 2) then
	51.pop();
	if (choice = = 3) then
	si, peak();
	end stack
(t)	

Queve  import java.util.queve  queve <integer>q=new queve &lt;&gt;();  queve <integer>q=new queve (");  print ("1. Enqueve 2. Dequeve");</integer></integer>
import java. util. queue oueue < > ().
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import java. util. queue oueue < > ().
oueue <integer> q = new gueue &lt; &gt; ();  Queue <integer> q = new gueue ");</integer></integer>
queue <integer> q = new general);</integer>
1111 000110110
print ("1. Eliqueus
accept(c);
if $(c = 1)$ then $The ger(data);$
if (c = = 1) then q.odd(new_Integer(data));
1 + (c = 2) + (c = 2)
q.remove();
endqueue
1 inked list algo linklist()
linkedlist < integer> i= new linkedlist <>();
print (") Insert 2. Delete").
accept (c)
if (c = 1) + hen
i. add (new Integer (accepted data));
if (c = 2) then
j.remove (data);
endlinkedlist
Array List
algo array()
Arraylist <integer> al = new Arraylist &lt;&gt;();</integer>
print ("1, Add 2, Renzove 3, Size");
accept(c);
if (c = = 1) then
an add (new Integer (data));
if (c = = 2) then
. H (1984) 2012년 다른 1일 시간 전 전 전 전 전 전 경기 (1984) 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
q1. remove (data);

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	if (c = = 3) then
	print (a1.51ze()).
	endarray
6	Hash Map
ص. ـ ـ	algo HashMop()
	HashMap< string, integer > h1 = new HashMan <> ().
Warner and	PHD± ("[FD+et");
	accept (key.value);
	hi.put (key, value);
	hI. remove (key); hI. size ();
	n).5/2e(7;
- it	Collection Framework Hierarchy
	A to be a to be a second of the second of th
	Iterable
	Collection
	List gueue set
<del>- i</del>	Array list Priority queue - Hash set
	LArray list   Priority queue   17 Hash Set
	Tinked list - Linked Hosh
	1-> Dequeue set
1	- Vector
	Istack Array Dequeue Sorted set
	reaset]
	?: implements

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a to the second	Descrip	Hon	and the second s	Expected.	O/P Res
0	Stack	Insert	and extra resistance research and resistance re-	Same as	Pas
Par/Annabages		(2,4,6,8) Pop 2 times	ner contraction to their consumer account of the construction of t	expected	
(2)	Queue	Enqueue	antice on according to according to a contract of the contract	same as	Poss
(2)	QUEUE	(, 1, 3, 4, 5)	U necessario de la compansión de la decisión de la	expected	THE STREET STREET, STR
		Dequeue	5	and the state of t	CONTRACTOR OF THE PROPERTY OF
		(2 times)	and the second s	AND A STREET THE PARTY AND ASSESSMENT OF THE PARTY OF THE	name and the second
					The same of the contract to the same of th
	Linked Lis		27478		Pass
	1.	(2,4,6,8) Remove (6)	, taken yang a d	expected	SECTION OF A SECTION OF THE PROPERTY OF THE PR
		XXIIIOVE C6.		EPT-PC-manufals 2014-04-9-7-mail: e34-7-9-7-mail: e3-6-7-9-7-mail: e3-6-7-9-7-9-7-9-7-9-7-9-7-9-7-9-7-9-7-9-7	
A	rray list	Add(10,20,30)	Array	same as	Pass
		Remove (20)	10,30	expected	
			5ize - 2		<u> </u>
Has	shM op	Insert (A,I)	Al	same as	Pass
		Insest (8,2)	(3	expected	
211.44		Insert (C,3)	size 2		
		Remove (2)	17		
				studied ar	