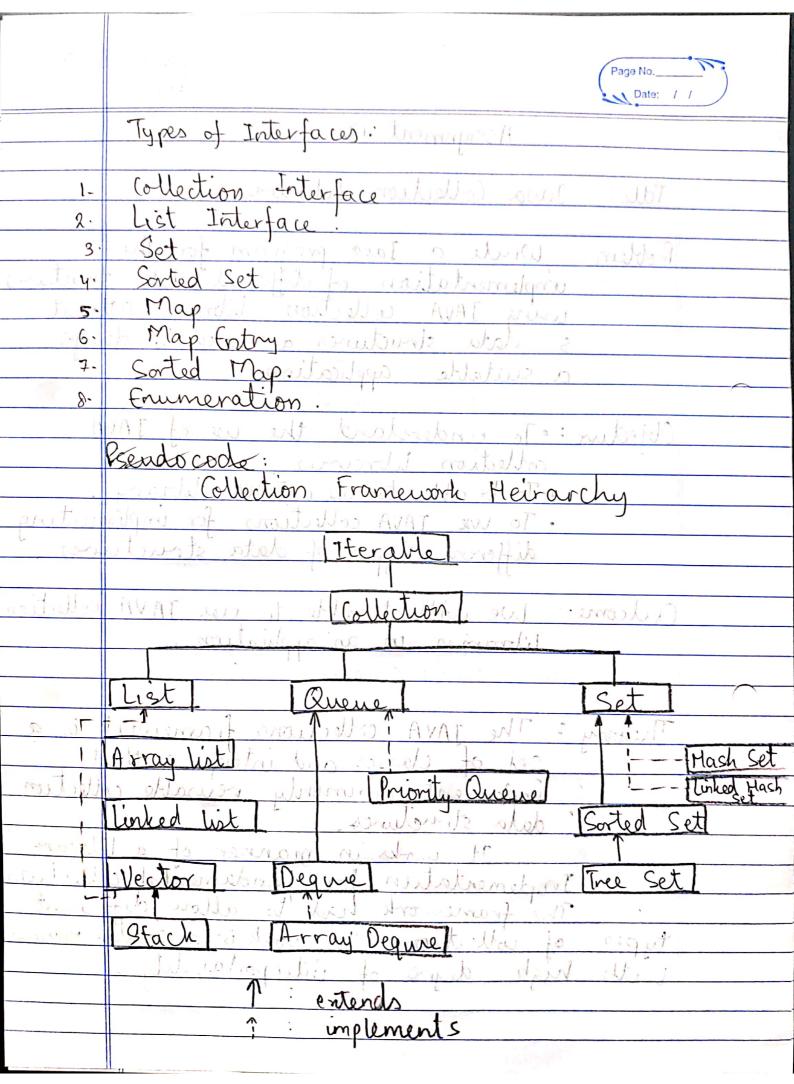
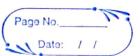


	Date: / /								
	Assignment -13.0 July 6 copy								
	Title: Java Collection Libraries								
	Q dollars to the C T is a first of the								
	Problem: Write a Java program for the implementation of different data structures using JAVA collection libraries atteast								
	unplementation of outtered auta structure								
	5 data structures are used to design								
	a suitable application 1								
	a suitable application of the								
	Objective: . To understand the use of JAVA								
	collection libraries : elsa alues								
	and no be able to the antala library.								
	· To use JAVA collections for implementing								
	· To use JAVA collections for implementing different of data structures								
3	Outcome: lase inthit he allow + and TAVA collections								
	Outcome: We will be able to use JAVA collection libraries in an application.								
	List ! Cume! ! Set !								
	Theory: The JAVA collections framework is a								
Hash Se	set of classes and interfaces that								
J. Sue May	set of classes and interfaces that implement commonly versable collection data structures.								
	data simerures.								
1	To demontations for the damental collections								
3	It works in manner of a library Indementation for fundamental collections The framework had to allow different types of collections to work in a similar manner with high degree of interportability.								
	types of collections to work in a similar manner								
	with high degree of interportability.								





			Date:					
		Algorithms;	tail bedon	Uil				
		,	Other opla					
	1)	Stack						
		C' dela s	Freezel 1 1 hong					
		algo Stack () Stack (integer)s	C) thing					
		Stack <integer>s</integer>	1= new Stack <7 ();					
		prod () Rush	12. POP)					
		accept (choice); if (choice == 1) t	rult (s: so) fine					
		It (choice == 1)	then minger !					
	SI. push (new Integer (si next Int ());							
		1 (choice = = 2)	then.					
		SI pop();	1 2 4 2 4					
			then tow us rid	(1)				
		SI. peak();	the second of the second					
	(_	(< > triendystache = 10 < rap stack tail morn						
		1 Certifica Invented.						
	2) Queue, (G) Mario							
	angort java util Ouene Ouene (integer) q new Quane <>();							
		print (" 1. Enquelle 2. Dequeué');						
		accept (c):	17 Common 10					
	if (== 1) then 1 (1)							
	g-add (new Integer (data); if (==2) then							
		(A AND AND AND AND AND AND AND AND AND AN					
	Hash Maye.	1-						
end quene. gort doord								
	-		Win Ford March					
		THE PROPERTY OF THE PARTY OF TH						
		in the state of	no kay no					



· .	Date: / /							
(iii	Linked list							
	algo linklist ()							
	linkedlist <integer> i = new linked (ist > ().</integer>							
	print ("1: Insert 2. Pelete");							
	accept (a):							
	Chif (Ct=1) Then 10 Kny state don't							
	l. add (new Integer (accepted.data);							
	(f (c==2) then (a) (o) 1 / (1) (1)							
	1. remove (data);							
	Cond linkostist medial and diving 12							
	(chara = = 2) their .							
4)	None 12at 4 (8)							
4)	Array list not (8== mode) je							
	Acrondiat of the Samuel of 1:4 (see							
	Array list anteger? 91 = new Array list <>(). print ("1. Add 2. Rengove 3. Size");							
	occopt (c):							
	if (c==1) then my trong							
	an add (new Tateage Colata)).							
	(if (c==2) then (1) 1000							
	q1. remove (data);							
	(f (c==3) then 1							
	Coprint (at. size());							
	al. remove (data); if (c==2) then if (c==3) then oprint (ai.size()); end array.							
5)	Mash Map							
	Hachrack (Grinnapl)							
	mich (1) 6 mtor 1)							
	Mash Map algo HashMap() MashMap < String, Integer to: new HashMap < >0; print ("Enter"); accept (key, value); hi. put (key, value);							
	hi out Chen value).							
	7 00000							
-								



				Date: / /			
	hi-remove	(key);		171	1 11/20		
1 4	hi size ();	7 /					
Jal 1818	hi size (); end Hacht	Tap.	1111	10 %	12 3		
	Haran Prada Li	1 Hall pe	1761	event ex	: Which		
	1 0						
	Test Cases						
	Doce : +:	# 10 A	0.00	C -1 1	- 10	0	
	Description	1/1/	OP	Expected	011	Result.	
1.	Stack	To t		1.		D	
,	- tack	Insert (2,4,6,8)	٩	2_		Pauss.	
			2		-		
		pop 2 times				ρ.	
2	. Quene	Enquerre	3	1	3	Pass-	
		1,2,3,4,5	4		4	· ·	
		Deg nene	5		5		
		Deg vine (2times)					
?	· Linked list	Insert	રૂ →૫	→8 2.	→4~8	Success.	
		(2,4,6,8)		1	disc.		
		Remove (6)				2.1	
		<u></u>	<u>, and the second secon</u>				
\	· Array List	Ndd Cm = = 1	\ A			0	
	" My USL	Add Go, 20, 30 Remove (20)		ay A	rray	Pass	
		MMBAC (50)		<u>,) (</u>	10,30		
			217	e 2 (Sire 2		
g	· HashMap	Incert (A.I)	Ą	· 1	A (Success	
		Insert (A,1) Insert (B,2) Insert (C,3)	(,	b		الرروحي	
		Insert (c,3)) Si	re 2	(3) Size 2		
		Remove (2)					

