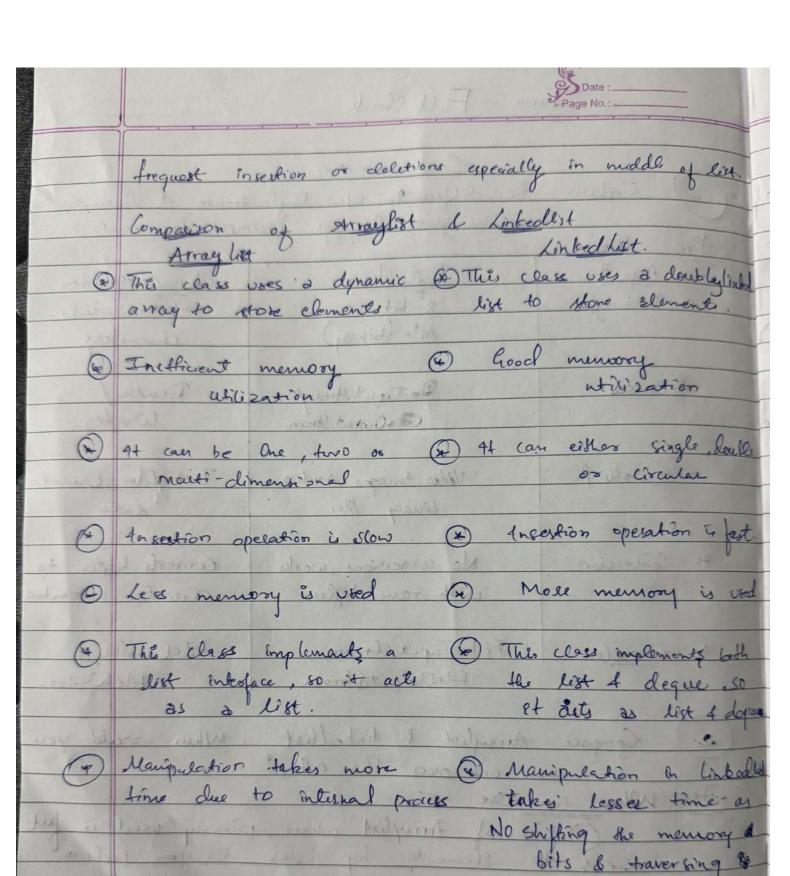
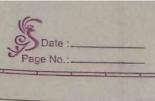
	7	ava - Pill Stack	Page No.:	
1	Explain &	Section - A the differente 6/00 Byle ream in jac & give Ex	NOTE DESCRIPTION OF THE PARTY O	
Aly	Aspect Data type	Byte Stream 8-bit raw data (biney)	De process	
*	Clesses	Restrict Streams	Realy / Writes	
	Quitable for	Video, Amages Andro binacy files	Text files, Ourode	
4	Conversion	No conversions, works	Converts bytes to Claracter automatically	
4	Danyles	Fêle Input & fream, FileOutput & fream	File Worter.	
2	Compale	Arraylost & linkedlist	, When would you	
	When to Use it all when primary need is fast access to Elements by Index & you perform more read operations than insertions or deletions.			
	A Property of the Control of the Con	of Linkedfist when yo		



is easy



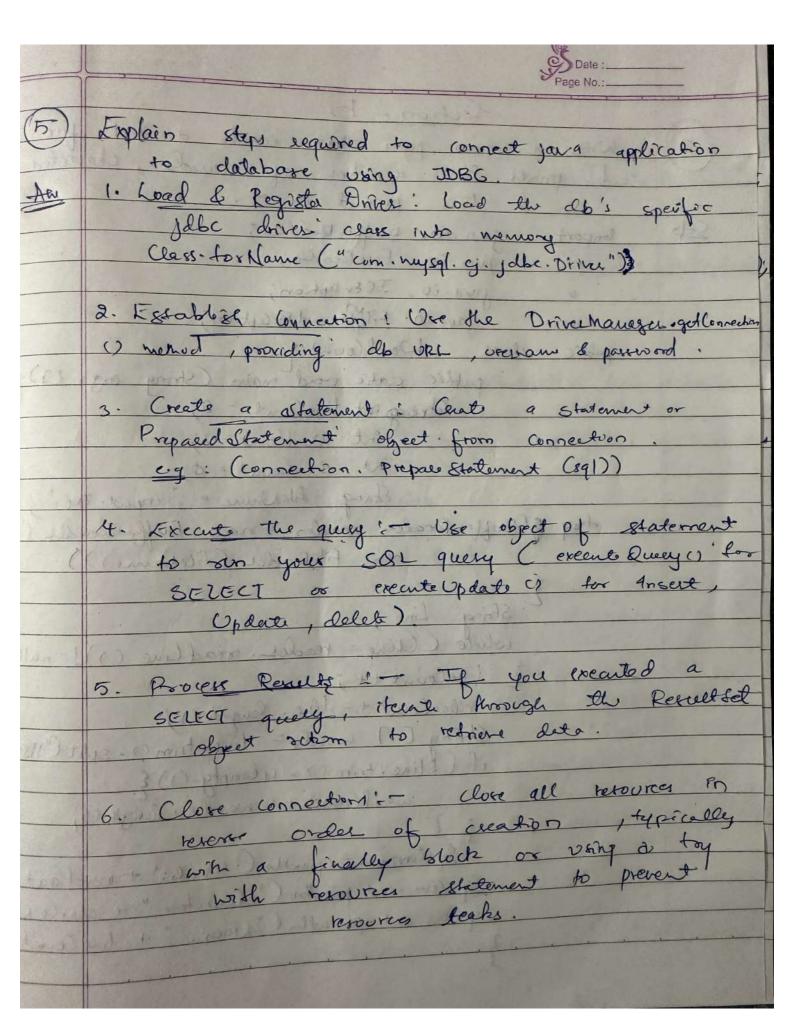
Explain what lambde expressions are I how shey improve - code reability ceadability. Give simple example.

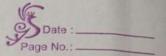
A Lambda Expossion is an anonymous function - a block of code without a nome that can be passed as an argument to a method or stond in a variable. + At is used to implement the tingle abstract method of a functional interface. 4 Lambda insprove readability by removing bio boilesplate code such as syntax required for anonymous innes classes. This makes the code more concise l'expressive, allowing developers to treat functionality as data it focus on what to do salher than how to notop the object @ Functional Interface enterface Math Operation & Port operate (Fut a , int 6); Mathopaution addition = (a, b) => a+b; Put result = addition. opelate (10,5); System. out. print (result);

11 Outp J: 15

4. What not Java Generics ? Why are they crop of ostant for type safety ? Also implain od of Arnotations in your ? with Eg.

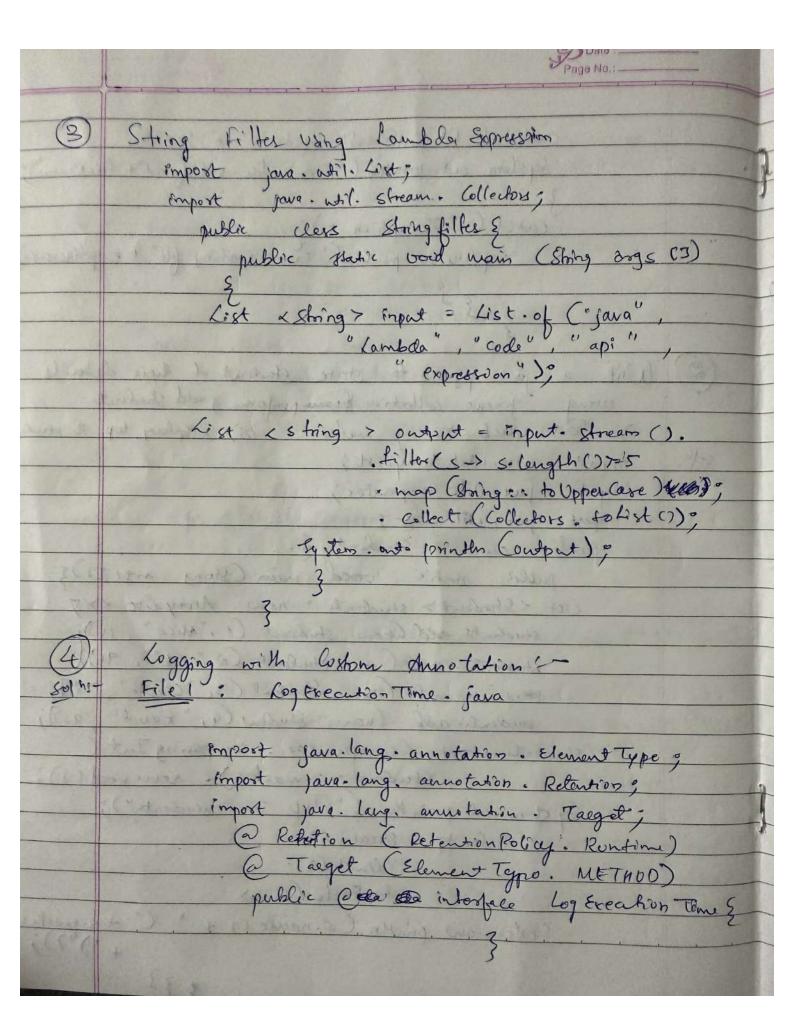
And Generics on feature that allows clarkes, interfaces ? medleds to be parameteried by type. This e.g <T> is replaced with type (Storing or Nege) Impostance ! Generics enforce the type safety at can hold like List XString > the compiler only accepts the string objects, which prevents "Class Cart Exception" cross at suntine. Annotations: - The form of metadata that provide information about cocle to the compiler or JVM at sentime. OFor Compiler: a Overrides cheeks if a method correctly overrides a superclass method. & a Suppross Doonings Coupposs specific warnings (i) For processing at Runtine - a log Execution Time can be lead using reflection to trigger annotation eig Chivocrised & @ Pest Compile to configure applications & enables dependency organis

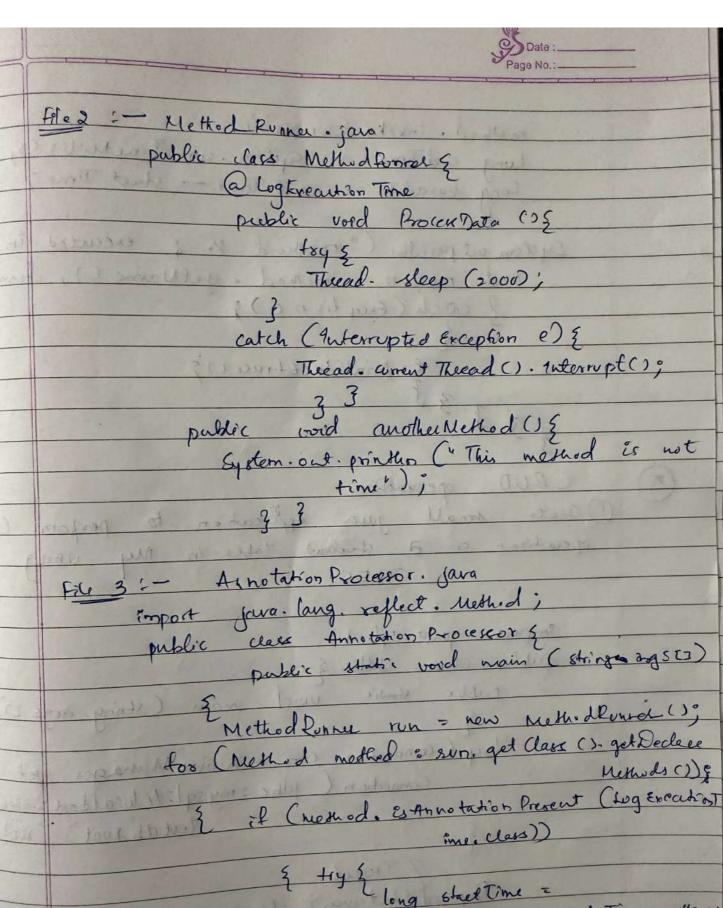




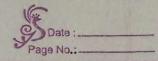
Section - B Write a java pgm that eeads a text file I prives the number of words, characters lines present in it. Soly java. 10. Buffer Reader; Pemport java. io. IDExaption; java.10. File Found Exception; public class DordCount & public state void main (String ags 1)5 Corring int line lound = 0; · firt Wordlows =0; int charlount = 0; Stang file Name = "input. tet"; try & (Buffer Peaker reader = new Buffer Reader (new filefeader (filesame)) String Line; white (Cline = reades. read Line ()!= null) lineCount ++ ; charlount + = line. leught (); String [7] words = line. trim (). split ("16+") if (!line. trim (). is Empty ()) } word (overt + = word . longth cs) System out printin ("Words:" + wordloat);
System out printin ("Clasactors:" + clar Count); System out formath (" Dines: " + line Count);

	Page No.:
	Catch (Blinis: Dr.
	System - out minus ("e)
	2 cros tile not found"+ file Dame);
	Catch C I OFFICE Day of)
(8	System out much C' E
	System out much C'Error reading fle" + e. getmerson
	topol to 3 topol topols to
	1 do 1 do 5 do 1 do Solviol
2)	Write a para perm to chara de a a a man
	Write a javo pegan to store student & their details
. (wing generic collection brown perform is add students
da:	(most sudent by nasks (ii) Display top 3 stude
100	impost java. wil. Array List;
0	throat how El Con
	Dublic 18 5
	public clase Student &
	public static vood main (String ang) []) {
	Students. add Onen student (1," Hice", 85))
	students, add then student (1, Hice 15))
	students. add (new student (2," 806", 91));
	Students add (new Shedent (3, "Charle", 78);
	soudents-add (non Stadent (4, "David", 92);
	Students. Sort Compreator. comparing Int C
	Stiedent: nacks). reversed());
	System.out. prindlin (" Top 3 stedents")
	Skedents, Stream ()
	13 1 (3) (3)
	fortach (s ->
	(u deus sud. min Hn (S. name () + (+ S. marks ()
	+ / '-'/
	* 33





Page No.:	
method. invoke (runnel);	
Time = System . when the Mill	5
Long duration = end Time start Time;	
Sed Carried May Middle	-
System out pointly (" method ", & executed"	Ĭħ
% d ms% n, method . get Dame (), d	eration);
? catch (Exceptione);	
* (a midner of extremetal) dates	
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
2 13 Sallanda Sallan	
Coming property of the affect of the	
(5) CRUD operation	
O Geals small java application to perform	CRUD
operations on a student table in My unin	3
MIN STORCL WHAT HIS AND	
ingert your lang reflect Made i	
import java-sql. 4;	
public class Jdbc &	
public static void main Estring args	5 (1)
tru Connection of Dr. Marin	. 0
try (connection con = Driver Manager. o	jet /
Connection C' jdbc: mysq!=// local host: textdb, root	" 3306/
(excap, 100)	1001
1/ Insect	
	1 0
(Ensert into student values (4
Student vielles	



Alice "101" "alice Egnalicon"));

ps. set Int (1,1);

ps. set Int (3,85); gs. execute Updat (); System. out-prixth. (" Inserted"); a Opdate PS = con-prepare statement ("update set nocks = (0))

where never "Alice");

PSo set Int (1, 98); ps. setString (2, "Alice") of System. out-printin ("Updated"); ps = con . proposedestatoman ("delote from stredent coher name = 2) ps. set String (1, "Alive");
ps. execut. Opdale (1;
system-out. pollun (" deleted record")

3 codch (Exception e) { e, piatstack Trace ();