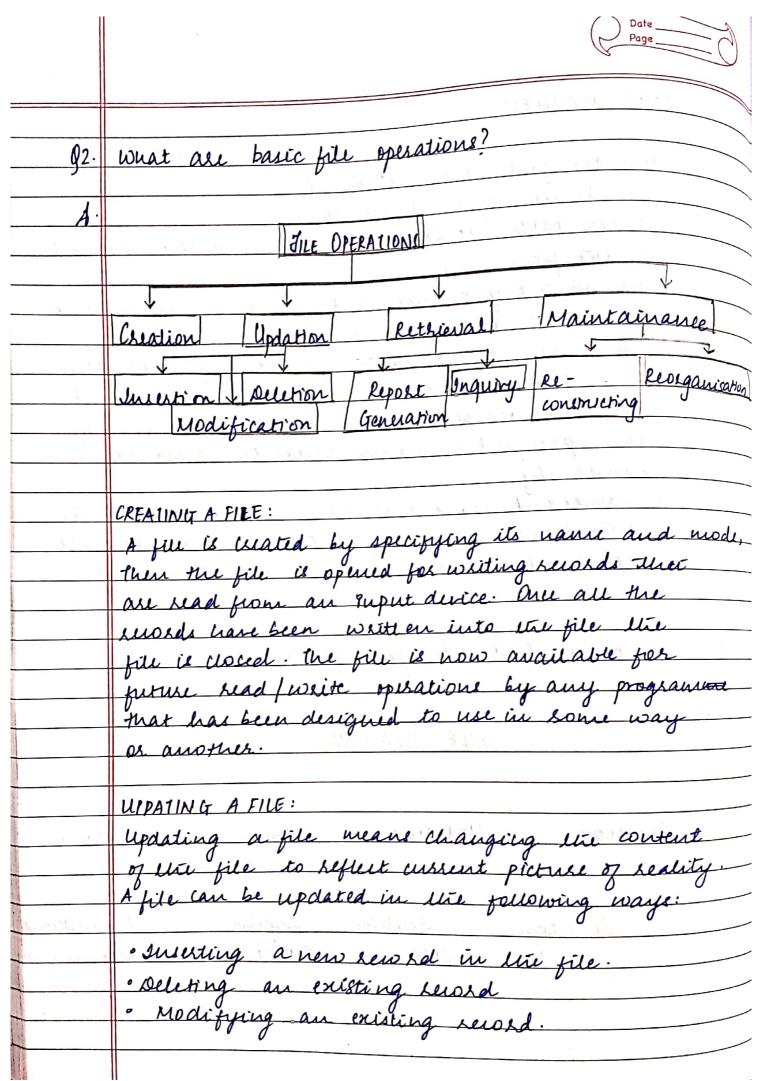
nate of	Submission: 27/03/2020 Shreya Shitty Classmate		
			A033 20262019057 · Page
		- PSA A	Issignment 02—
	1	alt a	real-consenses on a situated
1			in the terms of all alternations.
81.	Explain	Indexed	sequential access scheme for file
	organical	ion.	and the second to be the to the
	0		
ø.	Indexed	sequenti	al file organisation stores data for
13	fast se	thieval · 1	he suords in an indexed sequential
	file are	of fixed	length and enry word is uniquely
	identifi	ed by a	key juild we maintain a take known
	asinde	x table.	which stores the record number and
	address	es of all	the records. That is for every file. This
	type of	file organ	isation is called indexed signeritial
	file orga	misation	because physically the seconds may
	be stor	ed anyu	were but the index table stores the
	address	es of thos	e heiords.
	The ith	entry i	in the index table points to the ith
	record.	of the file	. Intially when the file is created,
	each er	itry in	the Judea table containe NULL.
		the ith	Lecord of the file is written, free
5.1	10-1-02	ADDRESS OF	spau is obtained from fur space
	RECORD NUMBER	THE RECORD	manager and its address is stored in
		1.14	the it location of the Pudea table.
	1	765	Now, if one has to find the fourth.
	2	27	record there is noneed to access
	3	876	the first there records. Address of
	4	742	the fourth record can be obtained
	5	NULL	from the Endex table and the record
	6	NULL	can be straight away read from
	7	NULL	the specified address (742, are to
	8	NULL	un giren examples.
	9	NULL	An Indexed sequential file
	uses the	concep	t of both segmential as well as
¥.	v	1	

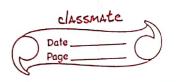
Page

	1110 is had
	relative files. While that index table is head second sequentially to find addresses of the address of the addr
	relative files white addresses of the transfer of
	sequentially to fund to the address of many
36	a direct access to himself to access to have
	specified sucord in the
	specified record  specified record  sudexed signential files perform well in situations  sudexed signential files perform well in situations  access
2004	Indexed signerum as well as handon access
	where signestial miles
3 · 1	is made to the dirices that supports
11 1 1	can be stored only on any magnetic discs.
)	Can be stoked only on access for example, magnetic discs.
1.	THE DELIANISATION:
11	ADVANTAGES OF INDEXED SEQUENTIAL FILE ORGANISATION:
	15 th U.S. Produce ase as
.3.	1. The key Emprovement is that the Pindice are as
225	the data base to access only the records it
$\parallel$	1400 4 3.
	2. supports applications that signing both batch
3,	and interactive processing.
9/1	3. Revolds can be accessed signentially as well as
4	randonly
ą.' ·	4. Updates the records in the same file.
7.4	the state from it may be started from the second or in the
Į.,	DISAPVANTAGES OF INDEXED SEQUENTIAL FILE ORGANISATION:
4	Self Little sixes illegate assessed to dear
	1. Indexed sequential files can be stored only
	on disks.
- A - 1	2. Needs extra space and overhead to store indices
	indices
	3. Handling where files is more complicated
-	than handling sequential biles
_	3. Handling view files is more complicated than handling sequential files. 4. supports only fined length records.
	11
••	Scanned with Comscan



## BASIC FEATURES: 1. Provides fast data sethieval. 2. Records are of fixed length. 3. Judin table stokes the address of the seconds in the file. 4. The illi entry in the index table points to the ith record of the file. 5. While the Enden table is read sequentially to find the address of the desired record. a direct access is made to the address of the specified record in order to access it sandowly. 6. Judined sequential files perform well in situations where sequential access as well as landown access is made to the data.





	69.
	Musition: If a new student joins the course, we will to add his rused to the STUPENT file.
	need to add his resold to the STUPENT file.
	the state of the s
	-> Deletion: y a student quits a course in the
	middle of the session, his record has to be
	deleted from the STUDENT file.
	and the second of the second o
,	-> Modification: y une name of a student was spelt
	incorrectly the correcting the name will
	be modification of the existing reload.
	have a result of the state of the state of
	The control of the wastered the
	RETRIEVING FROM A FILE
	with the second tent and the second of the s
1	It means extraining useful data from a given
	file. Information can be letrised from a file
U	either per an inquiry er for report generation.
(3.)	An inquiry por some data retrieves low
	Volume of data, while report generation may
	setsière à large vouvre of data pour lie file.
5	MAINTAINIAIG A FILE COME CONCERN OF THE CONTROL OF
	It involves reconstruction et reorganising the
	file to emprove the performance of the programs
Carre C	that access this file.
	suonstructing a file keeps the file organisation
	unchanged and charge only the structural
	aspects of the file ( tg. Changing the feild width es
	adding I deleting feiles) on the other hand, till
	reorganisation may involve the changing the
	U

