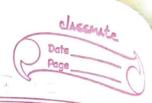
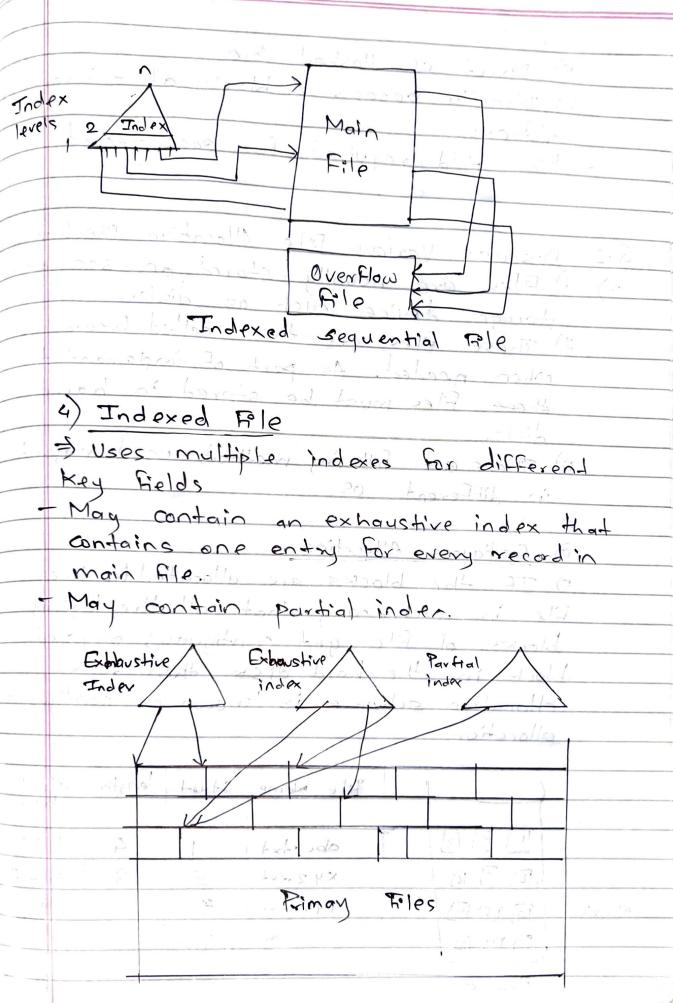
5. File Organization / Management give details of file organization types. · five Fundamental organization of file: =) It is simplest form of file organization. - Data is collected in the order they - Purpose is to accumulate the mass of data and save it. - Record is accessed by exhaustive search. - A pile file does not have any structure. (Pile File) 2) Sequential File It is most commonly used and records have a fixed format. Each and every record in the file has same length. The field name and each field length are attributes of file structure.



One field is the key field =) o) uniquely identifies the record New records are stored in log file or transaction Fleoring 21 IT (Sequential File) 3) Indexed Sequential File The indexed sequential file eliminates
the drawback of sequential file. Index provides a lookup cappibility to quickly reach the vicinity of the desired record. T New records are added to the overflow







	5	Direct	or Hashed	Fle		
	=)	Directly	access a	block	of a	know
	ac	Idress.			Halina	
- 1			required	For ea	ch rec	ord.

9.2 Discuss Various File Allocation Mechanism

=) i) Files are usually stored on secondary
storage device such as dist.

- ii) These files are then called back when needed. As part of implementation, these files must be stored in hord disk.
- in different os
- a) Contiguous Allocation
- FIR the blocks are allocated to the file in such a way that all the logical blocks of file get contiguous physical block in the hard disk then such allocation scheme is known as contiguous allocation.

1			-	1			
7			File	Name	91a64	length	allocated
	1000						0.000
,	1 2 3		ab	txt. 2.	1	4	1, 2,3,4
	D B D		X	12.4x+	5	3	5, 6,7
Blocks	用图图	四十二	P	4 . +x+	9	3	9,10,11
		·		Di	sectory		

Hard disk



15-							
	- In above example, there are three files in						
1.	directory the starting block and length						
are mentioned in table.							
	continuous line the table that the						
	as per 175 need.						
-	file as per its need.  Advantages						
	=) It is simple to it.						
*	Diadvontages						
-	Diadvantages  =) The disk will become fragmented.						
	b) 1:1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	b) Linked Listur Allocation on cohood (=						
	=) Linked list allocation solves the problem						
	In this each offler is considered to the						
linked list of disk blocks.							
- Each disk block allocated to a F							
	contains a pointer which points to the						
7.1	next disk block allocated to the same						
	Fleiber salabag della da allate						
	more the state more as to the						
	File File File						
	black 1 Block 2 Block 3 block 9						
Physic	2 10 8						
bloc							
_	Advantages						
	There is no external Fragmentation.						
	Disadvan Lages						

traverse each block.

Need

40



-) Linked list allocation using table in memory -) Each block needs to store pointer information therefore entire block is not fully used to store file content.

1	2.6	1	2 DO DECTOR
	Physical	Next block	
	0	2	ocetawhi
, ,		to 13,10	of ATT (
	2	18 190	aterial sold
1-,	3	, 12	16 20T/-

+ Advantages

Random accessionists muchi leasier de

Disadvantages mortanolle elevation 20

the time to make it work.

d) Indexed Allocation

Instead of maintaining a file allocation table of all disk pointers, indexed allocation scheme atores all disk pointers in one of the black called as indexed black.

- Advantages

- Support direct acress.

- Disadvantages

Hore pointer overhead.

