DSA Assignment-2

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	LON MASSIMITED 2							Ineha Bhadawala		
81.	Explain indexed sequential					829	A004			
7-	scheme for file organization						70362019005			
Ans.	Indexed sequential is a concept of how									
	Information in a file can be organized, rather									
	than a single defined file structure. In this scheme,									
	an index is created with key field and pointers									
	to various blocks. Basically, there are two files									
	maintained an index file with index and pointers									
	while the mosterfile with all records.									
	Index File Mast						er file			
1		ID	Pasition	33171	Position		Name	Salary		
		10	9 5		1 910 A	20	Mishty	5000		
		20	1	<b>\</b>	2	30	Rohan	2000		
		30	2 -		3	50	Seema			
		40	6		4	80	Rita	5000		
, Gra					75	10	Sara	8000		
			,	Service Const	> 6	40	Kimi	GOOP		
<b>→</b>	Each record has a range of bytes and constitutes a key									
	9									
->	such as account no., personal 10 etc.  * When file is essentially loaded, they are sorted by key.									
, la	There is an index that makes it possible to retainere									
_	Records can be undated but its low count to chancel									
	Records can be updated but its key cannot be changed.  Records can be need based on index that by index									
	Records can be read based on index key, by index									
_	Records combo redrieval									
	Records can be read sequentially from start									
	Alter on technic real subsequent records on to real									
-)	Triffer an occurrent reads, subsequent records can be read									
	in sequence called - skip sequential access									

Sneha Bhadausia what are the basic file operations? A fike is an abstract data type. For A004 70362019005 defining a file proporly, we need to consider the operations that can be performed on files there are six basic file operations within an Operating system These are: a) Creating a file : There are two steps necessary to create a file. First, space in file system must be found for a file so to allocate space for file. Second, an entry for new file must be made in directory. b) writing a file: To write to a file, you make a system call specify about both the name of the file along with information to be written to file. Beading a file: To read from a file, we use a system call which species the name of the file and where within memory, the next block of file should be placed. d) Repositioning Inside a file: The directory is searched position for suitable entry, and the "current file pointer is relocating to a given value Relocating called "file seek". Deleting a file: For deleting a file you must search directory for specific file. Deletion of file releases all file space that can be used by other files. Truncating a file. The user may wish to erase contents of a file but keep the attributes same. Bather than cleleting a file and recreate it, this utility allows all attributes of file to remain unchanged - except file length - and allows user to add or edict file content.

Explain Hashed Indices Q3-Hashed Indices uses the concept of hashing. As Ans. thashing is used to create compute the address of a record by using hash function on search key value, if at any point of time, hashed value map to same address, then collision occurs and schemes to yesolve collisions are applied to generate new orderess. The critical to success of this technique is to choose a good hash function i.e. it has two things. first, It should give an average case bokup i.e. small constant, irrespective of number of search key Secondly, the function distributes records uniformly and randomly among the buckets, (a bucket is a unit of one or more records typically a disk block). Correspondingly, worst hash function maps all the keys to same bucket. It is recommended to set number of buckets to twice the number of securch key values in file This gives a good & Space - performance trade off. A hashed file organisation uses hashed indices. Hashing is used to calculate address of clist block unhere desired record is In a hashed file organisation, secondary inclices needs to be organised using hashing