Assignment No.10

CIASSMATE
Date:
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Title: File organisation

Aim: To learn & implement the sequential file to maintain student information.

Problem statement: Department maintain a student
information. The file contain roll no name,
division address allow user to delete, add,
information of student. Display information
of student display info of particular employe
if record not exist appropriate manage should
be displayed. If it exist system displays
students's defails sequential file to mainta

Objective: i) To learn the basic concepts regarding sequentia

ii) to learn the way to implement the difform.
operation on file

Theory :

File organisation - file organisation refers to the relationst of key reflexed to the physical location that reflexed in the computer file.

There are various method of file organisation.

sequential file organisation is one of the way to handle file.

Sequential file organisation = It is one of the simple method of the file organization here each file record one Stored one afree the other in sequential manner. Records are stored one after the other as they are inserted into the tables. This method is called file method when new record is inscepted. it is placed at the end of the file in the case of any modification as deletion of record, record will be scarched it the memory block. once it is persent it will marked for deleting I new blank of record is entered. RI R3 | R4 | R7 | ---- Rx | R5 Operation -) Inxetion: It refers to new record to be inserted of end of file. i) Deletion: we have to search the record while file is not reached and if it is found the delete record.

- iii) Search: search the record into the file until it reached the end of file it return true if search successful otherwise false.
- iv) append: we try to insert new record at the end of file, it refers to append.

 ios: app mode should be file opening mode.

· file functions:

- i) open(): It required file name to be opened & file opening mude like ios:: app, ios::in, jos::out.... etc.
- ii) write(): It is used to write object into the file.
- iii) Read():- It is used to Read object from the file.
- iv) (lose () = It is used to close file.

Algorithms :-

i) create:

steps.) Open file using File pointer in writing mode.

Step 2) do while starts until user wants to enter now records. 2) getdata() of student information from the use 2) with object to file using file write() function end do while step 3:) dose the file. 2) Append :step 2.) Open the file wing file pointer in append mode. step 3.) do while starts until use wants to enter new records. 3.1) getdata uf Student information from the uses 3.2) write object to file using write function end do while Sep 4.) END 3) Display: Step 1:) Start Step 2.) Open the file using file pointer in reading mode step 3.) while file pointer is reached to end of file starts reading from file through (real() function end while

5) update -Step 1:) Start step 2:) open file in read mode Step 3:) while (fp) = eof()) 3.1 read from the file 3.2 check data to updated is matched, if it is true 3.2.1 get now updated data from were 3.2.2 update information (write object to file) else continue end while Step 4:) close the file step 5:) end Delete : step1:) start Step 2:) open the file in read mode step 3:) while (FP1 = eof()) 3.1 read from the file 3.2 check data to be deleted is matched, if it is true continue; else Store that record in new file end while Step 4:) Rename new file with 15+ file step 5:) rose the file step (:) END

· Application : i) Retrieval of record becomes efficient if the query uses the sorting athibute or search key in) sorting of records on ordering field is fast. ii) It Contains fast & efficient method for huge amount of date. iv) This method is used for report generation of Startical calculations. · Conclusion i) sequential file organisation is used when must of record have to be accessed like grade calculation of student, generating the salary slip...etc. ii) It is simple design. It requires no much effort to store data.