

Assignment No. 12

Department maintains student information. The file contains roll number, division & address. Allow user to add, delete information of student, display information of student. If record of student does not exist an appropriate message is ~~for~~ displayed. If it is then system displays the student details.

What is sequential file?

→ A file that contains records or other elements that are stored in a chronological order.

Functions:-

* ~~Write~~ ^{Display} :- The write function is used to display the contents of the file. (void display) Using an object of class ifstream, the file is opened for reading. With the (obj.showdata()) the data inside the file is displayed on the console. And the file is closed.

* Write :- The write function is used to append data into the file. (void write_records) Using an object of ofstream, we can open a file "student.dat" in binary and append mode. The data such as name, address, roll number, division are entered into the file. The file is closed then.

Observation Table

- * **Search** :- The search function is used to search a particular record in the file by taking roll number as a parameter to the function [search (int n)]
- * **Delete** :- The delete function in this program is used to delete a particular record in the file with the help of roll number [delete (d)]
In this function, two objects of ifstream ~~appear~~ opens a file "student.dat". While object of ofstream opens a file "temp.dat" using a while loop the data in the "student.dat" is written in the "temp.dat" until the required record is found in the file and it is renamed with "student.dat".
[rename ("temp.dat", "student.dat")]
- * **Main** :- It is the main function that displays the options to the user, then select a function & perform the operations.

Applications:-

- 1) Payrolls:- Sequential file against organization is most appropriate for payroll applications.
- 2) It is used when most of the records, have to be accessed like grade calculation.
- 3) It is used in report generation
- 4) Magnetic tapes.