Title: Using File Sequencing for management of student Information

Problem Statement 1- The Department maintains a students. information. The Alle contains roll number, name, division and address Allow user to add, delete, information of student -- Display information of particular employee If second of student does not exist an approximate message is displayed It it is , then the system displays the student defails use sequential file to main the data

Software Regularment + Jana, - Jum, 64-bit Fedora etc

Theory :- In the given scenario, we need to implement a. system to maintain student information using a sequential Ale. The system should allow the user to add and delete. Student information and display the information of a particular student.

1, sequence Hal file

- A sequential file is a type of the file organization where seconds are stored in a sequential order based on their physical placement in the file
- In this case, we can use a text file to store the Student information Each line in the file represents a student accord and the fields are seperated by a delimiter like a comma or a tab.

- 2. Adding student Information
 - To add Strudent Information, the system should prompt the user to enter the roll number, name division and address of the student.
- 3. Deleting Student Information
 - To add student information, the system should prompt the user to enter the roll number, name division and address of the student.
- 4. Deleting Student Interface
 - To delete students information, the system should prompt the user to enter the roll number, name alluision and address of the student they want to delete.
- 5. Displaying Student information.

 To display the information of the particular student,

 the system should prompt the user to enter full

 mame or the roll number of the student they

 want to velue
- 6. File Handling operations.

 The system needs to implement the file handling.

 operations to read from and curity to the sequential file.
 - The file should open in appropriate mode.

 Nike read write append.

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File arganization refers to the relationships of the key of the second to the physical locations of the record in the computer file. File organization may be either physical or logical

a physical file is a physical unit, such as magnetic tape or a dista

- A logical file on the otherhand is a complete set of seconds for a specific application or purpose

A logical file may occupy a part of physical file or may extend over more than one physical file.

There are various methods of the Alle organization some one:

1. sequential file organization

2. Heap file organization

3. Hash I object file organization.

4. Indexed sequential organization

5. B+ Tree file organization

6. Cluster File organization.

Algorithm!

1. Start

2. Oreate a structure to represent a student with the following attributes

a. a. Roll number (

b. Name

c. Division

3. Define operations addstudent of to add new student to the sequential file.

Define function name deletestudent () to delete the student with given roll number sether displaystudent () to display the information. of the student with the given roll number 6. close the sequential file. 1. Now, we can open the file as requirement 11 kg read, write or in append made 8. Stop. conclusion: we can maintain student information using a sequential file and perform operations such as adding deleting and displaying student information