SRM LIBRARY MANAGEMENT

Code Explanation:

Algorithm :

Step 1: Starts from main function

Step 2: Register or login.

Step 3: If registered Directed to Login.

Step 4:If student following functions will be displayed :

-Take a Book

-Return a Book

-Display Books

-My profile

-Main Menu

If Library staff following functions will be displayed

-Add Books

-Delete Books

-Display all Books

-Display student Records

-main menu

Step 5: Gets the required input and completes the process.

Step 6: Stop

Classes and Functions in our project :

1.Register class : First takes the username and checks if that username already exist in file user database.If exist then returns ‘username already exist’ else sets password and details and creates a file for each user separately.

2.Login class : Take inputs of username and password and checks if they correct or not from database and returns true or false .

Student End:

3.TakeBook class : Take the input of category and code of the book to borrow which will be displayed.Then gives the due date and add the book to the users file including the due date.Also deletes the quantity of book in library database as we are giving friend access to delete function.

4.Returnbook class: Displays the books borrowed by the student from his file and takes the details of the book to return and deletes the book from user file and increase the book count in library database. We are giving friend access to add books function.Also check if book is given late.

5.Myprofile :Displays the details of books borrowed by the student.

6.Display class: Displays books available in library category wise.

Library End : Only accessed by staff.

7.Addbooks class : get\_add () function will take the inputs of category ,if category already present takes the book details into the file if not creates a new file for that new category and appends the bookname , code ,quantity of books available.

8.Deletebooks class : get\_delete() function takes the details of the books to be deleted and erases the data from file data base.

9.Display\_stu class : gets all student details including all books he borrowed and the due date.

10.add() and deleted() functions have friend access to returnbook addbook classes.

How data is managed??

We use text file in a effective way to store the whole data according the the functions to be performed .We used file handling concepts to read ,write ,appending the data into the database.

After every successful registration a new file will be created for the user with his username, password , and all other details like books borrowed and deleted will be in the user file which can accessed by library.