Report for the Innovative Assignment:

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Topic: Expenses Management System

Concepts used:

1. arrays,
2. functions,
3. structures,
4. pointers,
5. file handling.

Algorithm for the program:

1. START
2. create 'entries' array
3. get entries from file and store it in 'entries' array
4. take input from user and perform respective task
5. if input is 1 then print the entries from 'entries' array
6. if input is 2 then add entries and then print entries
7. if input is 3 then:
    a. create another array 'filteredentries'
    b. filter entries
    c. print entries
    d. repeat if specified
8. if input is 4 then edit an entry and then print entries
9. if input is 5. then delete an entry and then print entries
10. if input is 6 then delete all entries in the ledger
11. if input is anything else, end the program

This topic was chosen to tackle one of the most important problems faced by college students (including me), that is money management.

This program has been made by using various concepts taught to us in the Lectures and Lab Classes by our professors.

This program initially presents a choice to the user of the operations that this program can perform, this includes printing already present entries, adding new ones, filtering, editing, and deleting the already present ones, and deleting all the existing entries.

If the user chooses to filter the entries, edit, or delete an entry, the program asks the user for the appropriate details required to perform the specified task, like the filter field and filter parameter. After filtering, the program asks the user if they want to filter the list further or not and performs accordingly.

This program was created with mostly students at the centre. It still has a lot of potential to expand in terms of the operations it can perform, their efficiency and in many other ways.

I hope that this project submission has satisfied your expectations from a first-year engineering student like me.

The complete code for this submission can be found on GitHub