PROBLEM STATEMENT:

we have chosen this project from EDUCATION domain where we can store the marks stored by 'n' students in 'm' semesters subject wise, name of the student, Hall ticket number of the student, calculate semester wise total and grand total. Provide the below functionally.

1)Read 'n' students data as mentioned.

2)Sort data (Ascending / Descending)

> ➢ Sem wise topper – lowest score
> ➢ Overall topper – lowest score
> ➢ Subject wise topper – lowest score
> ➢ Distinction wise topper lowest score

3)Search 'n' students data as mentioned.

> ➢ Hall ticket number based (Pass / Fail)
> ➢ Subject wise based (Pass / Fail)
> ➢ Failed students list semester wise
> ➢ Failed students list overall
> ➢ Number of students scored 70+ marks subject wise

4)Print all 'n' students data.

MODULES:

In this application all variables and structure are declared globally so that these variables and structure members can be accessed throughout the program at any function call. We can choose any function by using function calls which are declared in switch-case. In order to repeat the loop control statement (do-while) is used with condition. The memory allocation will be done in this program dynamically. The application asks the person who runs the program that how many student's data you want to store.

In this application four modules are used.

1.Read/Input

In this Sorting module the application asks the person who runs the program to enter   n passenger's details. To give n customers details for loop is used.

2.Sorting

In this module sorting of data is done according to the chosen wise. In this module there is a sub menu which asks to select the sorting wise by using switch case. The sorting sub menu will be like press 1 to sort by semester wise topper - lowest score press 2 to sort by overall Topper – Lowest Score press 3 to sort subject wise topper – Lowest score press 4 to sort by credit wise 5 to sort by Distinction wise Topper – Lowest score. In this module we used another control statement (do while) so that the application asks whether to continue sorting.

3.Searching

In this module searching of data is done according to the chosen wise. In this module there is a sub menu which asks to select the sorting wise by using switch case. The sorting sub

menu will be like press 1 to search Hall ticket based (Pass / Fail) press 2 to search subject wise based (Pass / Fail) press 3 to search Failed students list semester wise press 4 to search failed students list overall press 5 to search number of students scored 70+ marks subject wise. In this module we used another control statement (do while) so that the application asks whether to continue searching.

4.Print

In this module all the stored details of n students in m semester will be displayed on the screen. In this module printf function and for loop are used.