

Department of Computer Science and Engineering

REPORT ON

C-PROGRAMMING MINI PROJECT IInd Semester

Academic Year- 2018-19

TITLE :- STUDENT DATABASE MANAGEMENT USING FILE ORGANIZATION IN C

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Objective:-

The Student Database Management System helps to add, access and modify or update the data present in the file. This is a small try to make the job of the Institution's Management team a way more simpler. As this system is MENU-DRIVEN, the user will be easily allowed to perform the desired operation.

Features:-

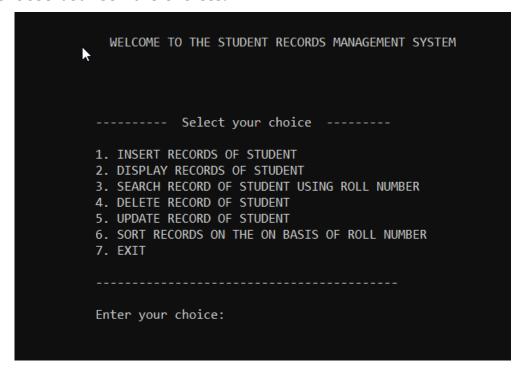
- **1. Menu :-** Users will be able to choose desired operation though the operations.
- 2. Operations on the data:
- Insertion of records
- Display of added records
- Searching any record
- Delete or Update any record
- Sort the records accordingly

SOFTWARE REQUIREMENTS AND SPECIFICATIONS:

- 1. PROGRAMMING LANGUAGE: C LANGUAGE
- 2. OPERATING SYSTEM:- WINDOWS 10/8/7
- 3. COMPILER: GNU CC COMPILER
- 4. As this is a program written in C language, IDE's such as CODEBLOCKS are required to execute the program.

Menu Window

Below snapshot presents to the user the "Menu" window which allows the user to choose between the choices.



If the user enters option 2 before entering any record into the file the program displays that the file is empty as shown below.

THE FILE IS EMPTY PLEASE ENTER NEW RECORDS.

If the user enters a wrong option (other than the ones listed in the menu) an error message will be displayed and the program would ask the user to re-enter with an valid option.

WELCOME TO THE STUDENT RECORDS MANAGEMENT S	SYSTEM
Select your choice	
 INSERT RECORDS OF STUDENT DISPLAY RECORDS OF STUDENT SEARCH RECORD OF STUDENT USING ROLL NUMBER DELETE RECORD OF STUDENT UPDATE RECORD OF STUDENT SORT RECORDS ON THE ON BASIS OF ROLL NUMBER EXIT 	
Enter your choice: 10	

PLEASE TRY AGAIN	
WELCOME TO THE STUDENT RECORDS MANAGEMENT SYSTEM	
Select your choice	
 INSERT RECORDS OF STUDENT DISPLAY RECORDS OF STUDENT SEARCH RECORD OF STUDENT USING ROLL NUMBER DELETE RECORD OF STUDENT UPDATE RECORD OF STUDENT SORT RECORDS ON THE ON BASIS OF ROLL NUMBER EXIT 	
Enter your choice:	

Inserting Data into File

Below snapshot, shows that the program allows the user to enter records into file when the user enters option 1 from the Menu. Fields such as Roll Number, Name and Marks obtained in Semester is fed into the file.

```
STUDENT RECORDS MANAGEMENT SYSTEM
Enter the Roll no of the Student :10
Enter the Name :AKASH
Enter total marks obtained by student in the Semester out of 800 :789

PRESS 1 TO CONTINUE ENTERING RECORDS OF ANOTHER STUDENT
PRESS 0 TO STOP
```

Roll Number of a student is unique, if the user tries enter a record with a roll number already wtritten into the file, the program displays a message that the roll number is already entered and would request the user to re-enter with an suitable roll number.

```
STUDENT RECORDS MANAGEMENT SYSTEM
Enter the Roll no of the Student :10
The roll number is already entered try with other roll number
```

```
STUDENT RECORDS MANAGEMENT SYSTEM
Enter the Roll no of the Student :
```

Displaying data stored in File

Below snapshot shows that the program displays to the user the records fed into the file when the user enters option 2 in the menu.

```
STUDENT RECORDS MANAGEMENT SYSTEM
DISPLAYING RECORDS OF STUDENTS
Roll Number
              Name
10
              AKASH 789.00
12
              RAVI
                     567.00
              JOHN
                     456.00
13
              ABRHAM 688.00
14
11
              SITA
                     799.00
```

Below snapshot shows that the program allows the user to search a record when the user enters option 3 from the menu and is requested to enter appropriate Roll No

```
STUDENT RECORDS MANAGEMENT SYSTEM

Enter the Roll no you want to search :12

Roll no = 12

Name = RAVI

Mark = 567.00
```

The program requests the user to enter a already existing roll umber from the file if the roll number entered by the user does not match with any records in the program.

```
STUDENT RECORDS MANAGEMENT SYSTEM

Enter the Roll no you want to search :20
Roll No 20 NOT AVAILABLE PLEASE TRY WITH ANOTHER ROLL NUMBER
```

Deleting data from file

Below snapshot shows that the program allows the user to delete a record when the user enters option 4 in the menu, the user would be requested to enter appropriate Roll No entered.

STUDENT RECORDS MANAGEMENT SYSTEM

Enter the Roll no you want to delete :13
RECORD DELETED

	STUDENT	RECORDS	MANAGEMENT	SYSTEM
DISPLAYING RECO	ORDS OF S	TUDENTS		
Roll Number	Name	Mark		
10	AKASH	789.00		
12	RAVI	567.00		
13	JOHN	456.00		
14	ABRHAM	688.00		
11	SITA	799.00		
Before	Before Deleting Record			

	STUDENT	RECORDS	MANAGEMENT	SYSTEM
DISPLAYING REC	ORDS OF ST	UDENTS		
Roll Number	Name	Mark		
10	AKACH	700 00		
10	AKASH	789.00		
12	RAVI	567.00		
14	ABRHAM	688.00		
11	SITA	799.00		
Afte	After Deleting Record			

Updating data stored in File

Below snapshot shows that the program allows the user to update a record (when the user enters option 5 from the menu) using Roll No entered, the user can update both name and marks or either of them.

STUDENT RECORDS MANAGEMENT SYSTEM Enter roll number to update:12 1. Update Name of Roll Number 12 2. Update Mark of Roll Number 12 3. Update both Name and Mark of Roll Number 12 Enter your choice:1

	STUDENT	KECUKUS	MANAGEMENT	SYSTEM
DISPLAYING REG	CORDS OF S	TUDENTS		
Roll Number	Name	Mark		
10	AKASH	789.00		
12	RAVI	567.00		
14	ABRHAM	688.00		
11	SITA	799.00		
Before updating Name in the record				

	STUDENT	RECORDS MANAGEMENT SYSTEM	
DISPLAYING REC	ORDS OF S	STUDENTS	
Roll Number	Name	Mark	
10	VNVCII	790 00	
10	AKASH RAM		
14	ABRHAM	688.00	
11	SITA	799.00	
After u	After updating name in the record		

Below snapshot shows that the program allows the user to update the marks of student using Roll No entered.

```
Enter roll number to update:11

1. Update Name of Roll Number 11
2. Update Mark of Roll Number 11
3. Update both Name and Mark of Roll Number 11
Enter your choice:2

Enter total marks obtained by student in the Semester out of 800 :750

RECORD UPDATED
```

	STUDENT REC	ORDS MANAGEMENT SYSTEM	
DISPLAYING RE	CORDS OF STUDE	NTS	
Roll Number	Name Mar	k	
10	AKASH 789	.00	
12	RAM 567	.00	
14	ABRHAM 688	.00	
11	SITA 799	.00	
Before u	Before updating marks in record		

	STUDENT	RECORDS MANAGEMENT SYSTEM	
DISPLAYING RECO	ORDS OF S	STUDENTS	
Roll Number	Name	Mark	
10	AKASH	789.00	
_ 12	RAVT	567.00	
11	SITA	750.00	
14	ABHRAM	688.00	
After updat	After updating marks in record		

The program requests the user to enter a already existing roll umber from the file if the roll number entered by the user does not match with any records in the program.

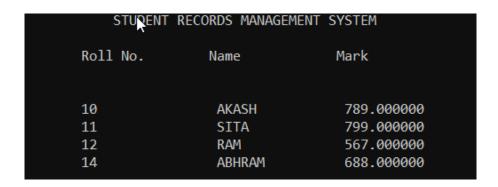
```
STUDENT RECORDS MANAGEMENT SYSTEM

Enter roll number to update:16

Roll number 16 NOT AVAILABLE PLEASE TRY WITH ANOTHER ROLL NUMBER
```

Sorting Records

Below snapshot shows that the program allows the user to sort the record on the basis of Roll Number of students.



Records sorted in ascending order according to roll number

Exiting Program

Below snapshot shows that the program allows the user to Exit from the program when the user enters option 7 in Menu.

