

DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA.

SUBMITTED BY:

Name - SHIVAM KUMAR

Enrollment no: - 12022002004036

Section:- K

Roll no:- 13

Stream:- IT

Subject - Programming for problem solving using c

Subject code:- ESC103(pr)

UNDER THE SUPERVISION OF:

PROF: SWARNENDU GHOSH

ACADEMIC YEAR: 2022-2023

(PROJECT REPORT SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS FOR THE SECOND SEMESTER)



CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by Anushka Pandit, entitled "Student Management System" be accepted in fulfilment of the requirements for the degree of fulfilment of the second semester.

Head of the Department IEM, Kolkata

Project Supervisor

Basic Science and Humanities

1. INTRODUCTION:

This project is assigned to me for developing a Student Management System with the help of basic C programming language.

The basic aim of the project is to create a student management system where we need to put up basic student details and thereby with the help of c programming, we have to create a portal (.exe file) for adding new student information, their roll number, marks obtained, reading and deleting student information, viewing all student list at a glance.

2. Variable Description:

The different variables used in this project are listed under:-

- 1. int- To store integer datatypes.
- 2. char- To store character datatypes.

3. Function Description:

The different functions (structures) used in this project are listed under:-

- 1. create_student- For creating the required student details vis. name,.
- 2. read student- For reading the student details.
- 3. update_student- For updating any student information.
- 4. delete_student- To delete any of the student information.
- 5. struct_student A value struct is ca fixed size structure that contains only public data fields and is declared by using the value struct keyword.

5.PROGRAM CODE:

```
C: > Users > Anushka > AppData > Local > Microsoft > Windows > INetCache > IE > A61FVT66 > © student[1].c > 38 printf("Grade: %c\n", %->grade);
     39
40
                     void update_student(struct student "s) {
   printf("Enter new name (or press enter to keep the same): ");
   char new name[MAX_MAME_LENGTH];
   getchar();
   fgets(new_name, MAX_MAME_LENGTH, stdin);
   new_name[strcspn(new_name, "\n")] = '\n"; // remove newline character
   if (strlen(new_name) > 0) {
        strcpy(s->name, new_name);
   }
    41
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58
                                  printf("Enter new marks (or enter -1 to keep the same): ");
                                  float new_marks;
scanf("%f", Snew_marks);
if (new_marks != -1) (
    51
52
53
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58
                                          (new_marks != -1) {
   s->marks = new_marks;
   if (s->marks >= 90) {
        s->grade = 'A';
   } else if (s->marks >= 80) {
        s->grade = '0';
   } else if (s->marks >= 70) {
        s->grade = 'C';
   } else if (s->marks >= 60) {
        s->grade = 'D';
   } else if (s->marks >= 60) {
        s->grade = 'D';
   }
}
    59
    61
62
    64
    66
     68
                      void delete_student(struct student *s) {
   memset(s->name, 0, MAX_NAME_LENGTH);
   s->roll_number = 0;
   s->grade = 0.0;
}
     70
    71
72
73
```

6. OUTPUT:

```
Menu:
1. Create new student
2. Read student
3. Update student
4. Delete student
5. View all students list
6. Exit
Enter your choice: 1
Enter name: ron de
Enter roll number: Enter marks: Student created successfully.

Menu:
1. Create new student
2. Read student
3. Update student
4. Delete student
5. View all students list
6. Exit
Enter your choice:
Enter name: Enter roll number:
```

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2. Read student
3. Update student
4. Delete student
5. View all students list
6. Exit
Enter your choice: 1

Enter name: ron de
Enter roll number: Enter marks: Student created successfully.

Menu:
1. Create new student
2. Read student
3. Update student
4. Delete student
5. View all students list
6. Exit
Enter your choice:
Enter name: Enter roll number: 5
Enter marks: 45
Student created successfully.

Menu:
1. Create new student
2. Read student
3. Update student
4. Delete student
5. View all students
6. Exit
6. Exit
6. Exit
7. Polete student
7. Update student
8. Update student
8. Update student
9. View all students list
9. View all students list