STUDENT MANAGEMENT SYSTEM

Submitted by

Name of the Students: Aheli Majumdar
Enrolment Number: 12022002003225
Section: I
Class Roll Number: 73
Stream: ECE
Subject: Programming for Problem Solving using C
Subject Code: ESC103(Pr)
Department: Basic Science and Humanities

Under the supervision of
Dr Swarnendu Ghosh

Academic Year: 2022-26

PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE SECOND SEMESTER

DEPARTMENT OF BASIC SCIENCE AND HUMANITITES
INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by **Aheli Majumdar,** entitled Student Management System be accepted in partial fulfillment of the requirements for the degree of partial fulfillment of the first semester.

_____	_____
Head of the Department Basic Sciences and Humanities IEM, Kolkata	Project Supervisor

Introduction

In C programming language, a structure is a user defined data type that describes a group of variables, of same or different primitive data types, under one common name, so that those variables can be accessed just by the structure name. At times, during programming, there is a need to store multiple logically related elements under one roof. In such cases, the C language provides structures to do the job for us.

Objective

The objective of this project is to create a student management system that will manage different details of students, like names, marks and phone numbers. It will help to manage the data in a well-organized manner.It will reduce complexity and increase productivity of one's work.

Organization of the Project

This project has 3 sections:-

Section 1: Building a structure named Student to declare different data types according to the project.

Section 2: Storing names, phone numbers and marks of students as provided by the user through input.

Section 3: Printing details of the students.

Variable Descriptions

struct student :- a structure to bring all details of students under one roof

name : to store names of students according to size given by user

phone : to store phone numbers of students according to size given by user

marks : to store marks of students according to size given by user

Program code

```
#include<stdio.h>
struct student
{
   char name[50];
   char phone[20];
   int marks;
};
int main()
{
   int num_students, i;
   printf("Enter the number of students: ");
   scanf("%d", &num_students);
   struct student students[num_students];
   for (i = 0; i < num_students; i++)
 {
       printf("Enter the details for student %d:\n", i+1);
        printf("Name: ");
       scanf("%s", students[i].name);
       printf("Phone number: ");
       scanf("%s", students[i].phone);
       printf("Marks: ");
       scanf("%d", &students[i].marks);
  }
   printf("Details of all students:\n");
   for (i = 0; i < num_students; i++)
 {
         printf("Student %d:\n", i+1);
         printf("Name: %s\nPhone number: %s\nMarks: %d\n",
students[i].name, students[i].phone, students[i].marks);
```

```
}
   return 0;
}
```

Outputs

Entering details:-

```
Enter the number of students: 5
Enter the details for student 1:
Name: Aheli
Phone number: 9876543210
Marks: 96
Enter the details for student 2:
Name: Papiya
Phone number: 8765942301
Marks: 93
Enter the details for student 3:
Name: Arunava
Phone number: 9078864553
Marks: 91
Enter the details for student 4:
Name: Arindam
Phone number: 7658971240
Marks: 98
Enter the details for student 5:
Name: Anubhav
Phone number: 9908775432
Marks: 87
```

Printing details:-

```
Details of all students:
Student 1:
Name: Aheli
Phone number: 9876543210
Marks: 96
Student 2:
Name: Papiya
Phone number: 8765942301
Marks: 93
Student 3:
Name: Arunava
Phone number: 9078864553
Marks: 91
Student 4:
Name: Arindam
Phone number: 7658971240
Marks: 98
Student 5:
Name: Anubhav
Phone number: 9908775432
Marks: 87
```