# CHANDIGARH UNIVERSITY

## A PROJECT REPORT ON

# “STUDENT REPORT SYSTEM


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## BONAFIDE CERTIFICATE

Certified that this project report entitled “STUDENT REPORT SYSTEM IN C” is the bonafide work of Mr. Nitish Kumar (Roll No: 25MCA20292), who carried out the project work under my supervision.

(Signature of Guide)

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## ABSTRACT

This project, titled 'Student Report System in C', is designed to record, process, and display the performance of students. It allows the user to input student details such as roll number, name, and marks of three subjects, and then calculates the total and average marks automatically. Based on the average, the program determines whether the student has passed or failed. This project highlights the use of structures, loops, and conditionals in C programming to manage data effectively.

## AIM

To design and develop a simple program in C that records student information, calculates their total and average marks, and determines the result based on performance.

## INTRODUCTION

The Student Report System is a mini project that provides a simple way to manage and display student information. This program is written in C language and uses structures to store data. It enables the user to input details such as roll number, name, and marks for different subjects. The system automatically calculates the total and average marks for each student and displays whether they have passed or failed. This project enhances the understanding of data structures, loops, and decision-making in C programming.

## BRIEF DESCRIPTION

This project uses the concept of structures in C to hold student data, including roll number, name, and marks.

The user is prompted to enter details for each student, and the program performs calculations to determine the total and average marks. Based on the average, a result status (Pass or Fail) is assigned. The program uses simple loops for input/output operations and displays all records in a tabular format, demonstrating effective data handling and logical implementation.

## OBJECTIVE

- To apply the concept of structures and arrays in realworld problem-solving.
- To design a program that efficiently stores and processes multiple records.
- To implement conditional statements to determine results.
- To display student performance in a clear and structured way

## EXISTING WORK

Traditional student record management was done manually using paper-based systems. With the advent of programming, simple tools were created using spreadsheets or basic databases. This project brings the

same concept into a simple C program that does not depend on external software or databases. It uses internal logic and basic programming concepts to achieve the same functionality efficiently.

RESULT (ALGORITHM) Algorithm:

1. Start the program.
2. Declare a structure to hold student details such as roll number, name, and marks.
3. Ask the user to enter the number of students.
4. For each student:
    - Input roll number, name, and marks for three subjects.
    - Calculate total marks and average.
    - Determine result as Pass if average >= 40, else Fail.
5. Display the report in a tabular format showing Roll No, Name, Total, Average, and Result.
6. Stop the program.

## PROGRAM CODE

```
#include <stdio.h>
#include <string.h>

struct Student {
   int roll;
   char name[50];
float marks[3];     float
total, average;     char
result[10];
};

int main() {
   struct Student s[10];
int n;
   printf("Enter number of students: ");
scanf("%d", &n);

   for (int i = 0; i < n; i++) {        printf("\nEnter
details for student %d\n", i + 1);        printf("Enter
Roll No: ");        scanf("%d", &s[i].roll);
printf("Enter Name: ");       scanf("%s", s[i].name);
s[i].total = 0;        for (int j = 0; j < 3; j++) {
printf("Enter marks of subject %d: ", j + 1);
scanf("%f", &s[i].marks[j]);            s[i].total +=
s[i].marks[j];
       }
```

```
        s[i].average = s[i].total / 3;
strcpy(s[i].result, (s[i].average >= 40) ? "Pass" :
"Fail");
    }

    printf("\nRoll\tName\tTotal\tAverage\tResult\n");
    printf("-------------------------------------\n");
for (int i = 0; i < n; i++) {
printf("%d\t%s\t%.2f\t%.2f\t%s\n", s[i].roll,
s[i].name, s[i].total, s[i].average, s[i].result);
    }
    return 0; }
```

**SAMPLE OUTPUT**

```
Enter number of students: 2

Enter details for student 1
Enter Roll No: 101
Enter Name: Rahul
Enter marks of subject 1: 80
Enter marks of subject 2: 70
Enter marks of subject 3: 75

Enter details for student 2
Enter Roll No: 102
```

```
Enter Name: Simran
Enter marks of subject 1: 35
Enter marks of subject 2: 45
Enter marks of subject 3: 30

Roll    Name    Total   Average Result
---------------------------------------- 101
Rahul   225.00  75.00   Pass
102     Simran  110.00  36.67   Fail
```

## CONCLUSION

The Student Report System in C demonstrates how data for multiple students can be processed efficiently using structures, loops, and conditional logic. It is a simple and effective way to manage student performance and understand practical programming concepts. This project has helped to improve understanding of data handling, modular programming, and logical thinking in C.

## REFERENCES


1. www.geeksforgeeks.org
2. www.programiz.com
3. 'Let Us C' by Yashavant Kanetkar

## GITHUB LINK

https://github.com/nitishprasher-debug/student-report-system.git