c program to store the information of students marks using structures and find total marks of individual student

#include <stdio.h>

struct Student {

char name[50];

int rollNumber;

float marks[5]; // Assuming 5 subjects

float totalMarks;

};

void calculateTotalMarks(struct Student \*student) {

student->totalMarks = 0;

for (int i = 0; i < 5; ++i) {

student->totalMarks += student->marks[i];

}

}

int main() {

int n;

printf("Enter the number of students: ");

scanf("%d", &n);

if (n <= 0) {

printf("Error: Please enter a positive number of students.\n");

return 1; // Exit the program with an error code

}

struct Student students[n];

for (int i = 0; i < n; ++i) {

printf("\nEnter details for student %d:\n", i + 1);

printf("Enter name: ");

scanf("%s", students[i].name);

printf("Enter roll number: ");

scanf("%d", &students[i].rollNumber);

printf("Enter marks for 5 subjects:\n");

for (int j = 0; j < 5; ++j) {

printf("Subject %d: ", j + 1);

scanf("%f", &students[i].marks[j]);

}

calculateTotalMarks(&students[i]);

}

printf("\nStudent Information and Total Marks:\n");

for (int i = 0; i < n; ++i) {

printf("\nStudent %d\n", i + 1);

printf("Name: %s\n", students[i].name);

printf("Roll Number: %d\n", students[i].rollNumber);

printf("Total Marks: %.2f\n", students[i].totalMarks);

}

return 0;

}