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/*
Exp : 9
Title : Design a structure student record to contain name roll number and
total marks obtained
& write a program to read 5 students data from the user and then
display the topper on the screen.
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*/
#include <stdio.h>
#include <string.h>
struct Student {
    char name[50];
    int rollNumber;
    float totalMarks;
};
int main() {
    struct Student students[5], topper;
    int i;
    printf("Enter data for 5 students:\n");
    for (i = 0; i < 5; i++) {
        printf("Student %d:\n", i + 1);
        printf("Enter name: ");
        scanf(" %[^\\n]", students[i].name);
        printf("Enter roll number: ");
        scanf("%d", &students[i].rollNumber);
        printf("Enter total marks: ");
        scanf("%f", &students[i].totalMarks);
    }
    topper = students[0];
    for (i = 1; i < 5; i++) {
        if (students[i].totalMarks > topper.totalMarks) {
            topper = students[i];
        }
    }
    printf("\nTopper:\n");
    printf("Name: %s\n", topper.name);
    printf("Roll Number: %d\n", topper.rollNumber);
    printf("Total Marks: %.2f\n", topper.totalMarks);
    return 0;
}
/*

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****OUTPUT:****

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Enter data for 5 students:
Student 1:
Enter name: Sahil
Enter roll number: 1
Enter total marks: 95
Student 2:
Enter name: Taskeen
Enter roll number: 2
Enter total marks: 90
Student 3:
Enter name: Jeesan
Enter roll number: 3
Enter total marks: 70
Student 4:
Enter name: kaif
Enter roll number: 4
Enter total marks: 55
Student 5:
Enter name: asif

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Enter roll number: 56
Enter total marks: 99
Topper:
Name: asif
Roll Number: 56
Total Marks: 99.00
*/