

```

1  #include <stdio.h>
2
3  // Function to calculate percentage
4  float calculatePercentage(float marks[], int n) {
5      float totalMarks = 0;
6      for (int i = 0; i < n; i++) {
7          totalMarks += marks[i];
8      }
9      return (totalMarks / (n * 100)) * 100;
10 }
11
12 // Function to apply scholarship
13 float applyScholarship(float percentage, float admissionFee) {
14     if (percentage > 40) {
15         float scholarshipAmount = 0.20 * admissionFee;
16         return admissionFee - scholarshipAmount;
17     } else {
18         return admissionFee;
19     }
20 }
21
22 int main() {
23     // Array to store student information
24     struct Student {
25         char rollNo[20];
26         char name[50];
27         char address[100];
28         float marks[3];
29         float percentage;
30         float originalAdmissionFee;
31
32         float discountedAdmissionFee;
33     };
34
35     struct Student students[4];
36
37     // Variables to track the student with the most fee concession
38     int maxConcessionIndex = -1;
39     float maxConcessionAmount = 0;
40
41     // Input loop for student information
42     for (int i = 0; i < 4; i++) {
43         printf("\nEnter details for student %d:\n", i + 1);
44         printf("Enter Roll Number: ");
45         scanf("%s", students[i].rollNo);
46         printf("Enter Name: ");
47         scanf("%s", students[i].name);
48         printf("Enter Address: ");
49         scanf("%s", students[i].address);
50
51         // Input loop for marks
52         printf("Enter Marks for 3 Subjects:\n");
53         for (int j = 0; j < 3; j++) {
54             printf("Enter Marks for Subject %d: ", j + 1);
55             scanf("%f", &students[i].marks[j]);
56         }
57
58         // Calculate percentage
59
60         printf("\nEnter details for student %d:\n", i + 1);
61         printf("Enter Roll Number: ");
62         scanf("%s", students[i].rollNo);
63         printf("Enter Name: ");
64         scanf("%s", students[i].name);
65         printf("Enter Address: ");
66         scanf("%s", students[i].address);
67
68         // Input loop for marks
69         printf("Enter Marks for 3 Subjects:\n");
70         for (int j = 0; j < 3; j++) {
71             printf("Enter Marks for Subject %d: ", j + 1);
72             scanf("%f", &students[i].marks[j]);
73         }
74
75         // Calculate percentage
76         students[i].percentage = calculatePercentage(students[i].marks, 3);
77
78         // Apply scholarship to admission fees
79         students[i].originalAdmissionFee = 50000;
80         students[i].discountedAdmissionFee = applyScholarship(students[i].percentage, students[i].originalAdmissionFee);

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