

QUIZ 9

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Source Code:

```
C quiz9.c x
Users > aryan > Desktop > C > C quiz9.c
1 #include<stdio.h>
2 #include<string.h>
3
4 typedef struct{
5
6     char name[50];
7     double mid1;
8     double mid2;
9     double final;
10
11 }studentRecord;
12
13 void examAvg(studentRecord[], int NUM_STUDENT);
14
15 void examAvg(studentRecord student[], int NUM_STUDENT){
16
17     double average;
18
19     for(int i = 0; i < NUM_STUDENT; i++){
20
21         average = (student[i].mid1 + student[i].mid2 + student[i].final) / 3;
22         printf("%s exam average: %.2f\n", student[i].name, average);
23     }
24
25     printf("Enter student name and three exam score: ");
26 }
27
28 int main(void){
29
30     FILE* inFile = NULL; //File pointer
31     const int NUM_STUDENT = 4;
32     studentRecord student[NUM_STUDENT];
33
34     inFile = fopen("student_data.txt","r");
35
36     if(inFile== NULL){
37         printf("Could not open file student_data.txt.\n");
38         return -1;
39     }
40
41
42     for(int i = 0; i < NUM_STUDENT; i++){
43
44         printf("Enter student name and three exam score: ", i+1);
45         fscanf(inFile, "%s %lf %lf %lf", student[i].name, &student[i].mid1, &student[i].mid2, &student[i].final);
46     }
47
48     examAvg(student, NUM_STUDENT);
49
50     return 0;
51 }
```

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```
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35 inFile = fopen("student_data.txt","r");
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37 if(inFile== NULL){
38     printf("Could not open file student_data.txt.\n");
39     return -1;
40 }
41
42
43 for(int i = 0; i < NUM_STUDENT; i++){
44
45     printf("Enter student name and three exam score: ", i+1);
46     fscanf(inFile, "%s %lf %lf %lf", student[i].name, &student[i].mid1, &student[i].mid2, &student[i].final);
47     printf("%s %.2lf %.2lf %.2lf\n", student[i].name, student[i].mid1, student[i].mid2, student[i].final);
48 }
49
50 printf("\n");
51 fclose(inFile);
52
53
54 for(int i = 0; i < NUM_STUDENT; i++){
55
56     printf("%s exam scores = %.2lf %.2lf %.2lf\n", student[i].name, student[i].mid1, student[i].mid2, student[i].final);
57 }
58
59 printf("\n");
60 examAvg(student, NUM_STUDENT);
61
62 return 0;
63
64 }
```

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Output:

```
Enter student1 name and three exam score: Sam 90 90 80
Enter student2 name and three exam score: sara 90 90 90
Enter student3 name and three exam score: Alex 80 90 90
Enter student4 name and three exam score: Robert 90 80 90
Sam exam scores = 90, 90, 80
Sara exam scores = 90, 90, 90
Alex exam scores = 80, 90, 90
Robert exam scores = 90, 80, 90
sam exam average = 86.66
Sara exam average = 90
Alex exam average = 86.66
Robert exam average = 86.66
```