

main.c



Run

Output

```
1
2 #include <stdio.h>
3 struct employee{
4     int ID;
5     char name[15];
6     float salary;
7 };
8
9 int main() {
10     struct employee emp[3];
11     int i;
12     for(i=0;i<3;i++) //take input
13     {
14         printf("Enter name of employee %d\n",i+1);
15         scanf("%s",emp[i].name);
16         printf("Enter ID of employee %d\n",i+1);
17         scanf("%d",&emp[i].ID);
18         printf("Enter salary of employee %d\n",i+1);
19         scanf("%f",&emp[i].salary);
20         printf("\n\n");
21     }
22     for(i=0;i<3;i++) //output
23     {
24         printf("Employee %d : \n",i+1);
25         printf("name = %s , ID = %d , Salary = %f\n",emp[i].name,emp[i].ID,emp[i].salary);
26
27     }
28     return 0;
29 }
```

```
Enter ID of employee 1
22
Enter salary of employee 1
25000

Enter name of employee 2
raahim
Enter ID of employee 2
99
Enter salary of employee 2
3599

Enter name of employee 3
rubaisha
Enter ID of employee 3
67
Enter salary of employee 3
30000

Employee 1 :
name = ali , ID = 22 , Salary = 25000.000000
Employee 2 :
name = raahim , ID = 99 , Salary = 3599.000000
Employee 3 :
name = rubaisha , ID = 67 , Salary = 30000.000000
```

C:\Users\yma\OneDrive\Documents\PF\Structures\structures.c - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project Classes structures.c

```
1 #include <stdio.h>
2 struct student
3 {
4     int roll;
5     char name[15];
6     float marks[3];
7     float average;
8 }
9 int main() {
10     struct student st[5];
11     int i,j;
12     int index=0;
13     float max=-1.0;
14     for(i=0;i<5;i++) //take input
15     {
16         printf("\nEnter name of student %d\n",i+1);
17         scanf("%s",st[i].name);
18         printf("Enter roll no of student %d\n",i+1);
19         scanf("%d",&st[i].roll);
20         printf("\n\n");
21         printf("Enter marks of student %d in 3 subjects\n",i+1);
22         float sum=0.0;
23         for(j=0;j<3;j++) //marks input
24         {
25             printf("Marks of subject %d : ",j+1);
26             scanf("%f",&st[i].marks[j]);
27             sum+=st[i].marks[j];
28         }
29         st[i].average = sum/3.0;
30         if(st[i].average>max)
31         {
32             max=st[i].average;
33             index=i;
34         }
35     }
36     for(i=0;i<5;i++) //output
37     {
38         printf("Student %d : \n",i+1);
39         printf("name = %s , Roll no = %d , average marks = %f\n",st[i].name,st[i].roll,st[i].average);
40     }
41     printf("Student : %s has highest average marks : %f",st[index].name,max);
42     return 0;
43 }
```

Enter marks of student 2 in 3 subjects
Marks of subject 1 : 25
Marks of subject 2 : 37
Marks of subject 3 : 48

Enter name of student 3
alina
Enter roll no of student 3
44

Enter marks of student 3 in 3 subjects
Marks of subject 1 : 47
Marks of subject 2 : 50
Marks of subject 3 : 333

Enter name of student 4
ayesha
Enter roll no of student 4
39

Enter marks of student 4 in 3 subjects
Marks of subject 1 : 44
Marks of subject 2 : 56
Marks of subject 3 : 44

Enter name of student 5
ujala
Enter roll no of student 5
22

Enter marks of student 5 in 3 subjects
Marks of subject 1 : 21
Marks of subject 2 : 29
Marks of subject 3 : 38
Student 1 :
name = ali , Roll no = 40 , average marks = 49.000000
Student 2 :
name = amna , Roll no = 300 , average marks = 36.666668
Student 3 :
name = alina , Roll no = 44 , average marks = 143.333328
Student 4 :
name = ayesha , Roll no = 39 , average marks = 48.000000
Student 5 :
name = ujala , Roll no = 22 , average marks = 29.333334
Student : alina has highest average marks : 143.333328