

main.c

Run

Output

```
1 #include <stdio.h>
2 struct employee{
3     int ID;
4     char name[15];
5     float salary;
6 };
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");
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\ma\OneDrive\Documents\PF\Structures\structures.c - [Executing] - Embarcadero Dev-C++ 6.3

```
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TDM-GCC 9.2.0 64-bit Release

Project Classes (globals) structures.c X

1 #include <stdio.h>
2 struct student{
3     int roll;
4     char name[15];
5     float marks[3];
6     float average;
7 }
8 int main()
9 {
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 }
```

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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