

main.c

Run

```
1 #include<stdio.h>
2 struct employee
3 {
4     int e;
5     char name[20];
6     char designation[20];
7     char dept[20];
8     int sal;
9 };
10 int main()
11 {
12     struct employee a;
13     printf("Enter Employee Details:\n");
14     printf("-----\n");
15     printf("Enter Employee-Id : ");
16     scanf("%d",&a.e);
17     printf("Enter Name      : ");
18     scanf("%s",a.name);
19     printf("Enter Designation : ");
20     scanf("%s",a.designation);
21     printf("Enter Department  : ");
22     scanf("%s",a.dept);
23     printf("Enter Salary    : ");
24     scanf("%d",&a.sal);
25     printf("-----");
26     printf("\nEmployee Details: \n-----\n");
27     printf("Employee-Id : %d\n",a.e);
28     printf("Name       : %s\n",a.name);
29     printf("Designation : %s\n",a.designation);
30     printf("Department  : %s\n",a.dept);
31     printf("Salary      : %d\n",a.sal);
```

Output

Clear

```
/tmp/CkxBwL5pSH.o
Enter Employee Details:
-----
Enter Employee-Id : 19221
Enter Name       : k.guru
Enter Designation : assignment
Enter Department  : cse
Enter Salary     : 15000
-----
Employee Details:
-----
Employee-Id : 19221
Name       : k.guru
Designation : assignment
Department  : cse
Salary      : 15000
```

main.c

Run

Output

Clear

```
30     area = (a*b) / 2 ;
31     cout << "\nArea of Triangle = " << area << endl;
32     break;
33 }
34 * case 2: {
35     cout << "\nEnter the Side Of Square: ";
36     cin >> a;
37     area = a * a;
38     cout << "\nArea of Square = " << area << endl;
39     break;
40 }
41 * case 3: {
42     cout << "\nEnter the Radius of Circle: ";
43     cin >> radius;
44     area = 3.14159 * radius * radius;
45     cout << "\nArea of Circle = " << area << endl;
46     break;
47 }
48 * case 4: {
49     cout << "\nEnter the Length and Width of Rectangle: ";
50     cin >> a >> b;
51     area = a * b;
52     cout << "\nArea Of Rectangle = " << area << endl;
53     break;
54 }
55 default:
56     cout << "\n Invalid Choice!!! Choose Between 1 to 4";
57     break;
58 }
59 return 0;
60 }
```

```
gcc /tmp/6SFgpHArHc.c -lm
/tmp/6SFgpHArHc.c:1:9: fatal error: iostream: No such file or directory
   1 | #include<iostream>
     |           ^~~~~~
compilation terminated.
45
dash: 2: 45: not found
456
dash: 3: 456: not found
|
```

main.c

Run

```
1 #include <stdio.h>
2 union Job {
3     float salary;
4     int workerNo;
5 } j;
6
7 int main() {
8     j.salary = 12.3;
9
10    j.workerNo = 100;
11
12    printf("Salary = %.1f\n", j.salary);
13    printf("Number of workers = %d", j.workerNo);
14    return 0;
15 }
```

Output

Clear

```
/tmp/6SFgpHArHc.o
Salary = 0.0
Number of workers = 100
```

main.c

Run

Output

Clear

```
1 struct student {
2     char firstName[3];
3     int roll;
4     float marks;
5 } s[5];
6
7
8 int main() {
9     int i;
10    printf("Enter information of students:\n");
11
12    // storing information
13    for (i = 0; i < 5; ++i) {
14        s[i].roll = i + 1;
15        printf("\nFor roll number%d,\n", s[i].roll);
16        printf("Enter first name: ");
17        scanf("%s", s[i].firstName);
18        printf("Enter marks: ");
19        scanf("%f", &s[i].marks);
20    }
21    printf("Displaying Information:\n\n");
22
23    // displaying information
24    for (i = 0; i < 5; ++i) {
25        printf("\nRoll number: %d\n", i + 1);
26        printf("First name: ");
27        puts(s[i].firstName);
28        printf("Marks: %.1f", s[i].marks);
29        printf("\n");
30    }
31    return 0;
32 }
```

/tmp/6SFgpHArHc.o
Enter information of students:

For roll number1,
Enter first name: k.guru
Enter marks: 45
For roll number2,
Enter first name: hi
Enter marks: 34
For roll number3,
Enter first name: hjk
Enter marks: 43
For roll number4,
Enter first name: |

The screenshot displays a C++ development environment with two main panels: a source code editor on the left and an output console on the right.

Source Code Editor:

- File Name:** main.c
- Code:**

```
1 #include<stdio.h>
2 struct student
3 {
4     int rno;
5     char name[20];
6     int marks[3];
7     int total;
8     float avg;
9 }stud[2];
10 int main()
11 {
12     int i,j;
13     struct student s;
14     for(i=0;i<2;i++)
15     {
16         printf("Enter Record for Student-%d \n",i+1);
17         printf("-----\n");
18         printf("Enter Roll-No. : ");
19         scanf("%d",&stud[i].rno);
20         printf("Enter Name      : ");
21         scanf("%s",stud[i].name);
22         stud[i].total=0;
23         for(j=0;j<3;j++)
24         {
25             printf("Enter Marks of Subject %d : ",j+1);
26             scanf("%d",&stud[i].marks[j]);
27             stud[i].total=stud[i].total+stud[i].marks[j] ;
28             stud[i].avg=stud[i].total/3.0;
29         }
30         printf("\n-----\n");
31     }
```

Output Console:

- File Path:** /tmp/6SFgpHArHc.o
- Execution Log:**

```
Enter Record for Student-1
-----
Enter Roll-No. : 1596
Enter Name      : k.guru
Enter Marks of Subject 1 : 45
Enter Marks of Subject 2 : 87
Enter Marks of Subject 3 : 78
-----
Enter Record for Student-2
-----
Enter Roll-No. : 67
Enter Name      : 43
Enter Marks of Subject 1 : 332
Enter Marks of Subject 2 : 43
Enter Marks of Subject 3 : 3
-----
Records in Descending Order .
(According to Total-Marks)
-----

ROLLNO   NAME    TOTAL-MARKS  AVG
67  43   378       126.00
1596   k.guru  210        70.00
```

main.c

```
1 #include<stdio.h>
2 /*Here, we are using nested structure*/
3 struct student
4 {
5     int roll_num;
6     char name[20];
7     struct Date
8     {
9         int D;
10        int M;
11        int Y;
12    }bd,ad;
13 };
14 int main()
15 {
16     int r;
17     struct student a;
18     printf("\nEnter Student Details\n");
19     printf("-----\n");
20     printf("Enter Roll-Number : ");
21     scanf("%d",&a.roll_num);
22     printf("Enter Name : ");
23     scanf("%s",a.name);
24     printf("Enter Birth-Date : ");
25     scanf("%d-%d-%d",&a.bd.D,&a.bd.M,&a.bd.Y);
26     printf("Enter Admission-Date : ");
27     scanf("%d-%d-%d",&a.ad.D,&a.ad.M,&a.ad.Y);
28     r=a.ad.Y-a.bd.Y;
29     printf("-----\n");
30     printf("\nApproximate Age of Student at the Time of Admission\n");
31     printf("-----\n");
```

Run

Output

Clear

```
/tmp/6SFgpHArHc.o
Enter Student Details
-----
Enter Roll-Number : 192211596
Enter Name : k.guru
Enter Birth-Date : 21-7-2004
Enter Admission-Date : 596
-----

Approximate Age of Student at the Time of Admission
-----
-2004 Years
```

Online C Compiler

Display details of highest paid en

programiz.com/c-programming/online-compiler/

Interactive C Course

main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 struct employee
3 {
4     int eno;
5     char ename[20];
6     int salary;
7 }emp[10];
8 int main()
9 {
10     int i,high,n;
11     printf("/*How many employee info\nyou want to accept : ");
12     printf("Enter Limit: ");
13     scanf("%d",&n);
14     printf("-----\n");
15     printf("Enter details for %d employees:",n);
16     printf("\n-----\n");
17     for(i=0;i<n;i++)
18     {
19         printf("Employee Number: ");
20         scanf("%d",&emp[i].eno);
21         printf("Name          : ");
22         scanf("%s",emp[i].ename);
23         printf("Salary           : ");
24         scanf("\n %d",&emp[i].salary);
25         printf("-----\n");
26     }
27     high=emp[0].salary;
28     for(i=0;i<n;i++)
29     {
30         if(emp[i].salary>high)
31             high=emp[i].salary;
```

```
/tmp/6SFgpHArHc.o
/*How many employee info
you want to accept : Enter Limit: 34567
-----
Enter details for 34567 employees:
-----
Employee Number: 34
Name           : k.guru
Salary         : 34556
-----
Employee Number: fgh
Name           : Salary           : 34456
-----
Employee Number: sdfgh
Name           : Salary           : sdfgh34
-----
Employee Number: Name           : Salary           : qwertyu34567
-----
Employee Number: Name           : Salary           : fgh4ty
-----
Employee Number: Name           : Salary           : |
```

main.c

Run

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<string.h>
4 struct book
5 {
6     int b_no;
7     char b_name[40];
8     char b_author[40];
9     int no_pages;
10 };
11 int main()
12 {
13     struct book b[20];
14     int ch,n,i,count = 0;
15     char temp[40];
16     do
17     {
18         printf("\t\tMENU");
19         printf("\n-----\n");
20         printf("PRESS 1.TO ADD BOOK DETAILS.");
21         printf("\nPRESS 2.TO DISPLAY BOOK DETAILS.");
22         printf("\nPRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.");
23         printf("\nPRESS 4.TO COUNT NUMBER OF BOOKS.");
24         printf("\nPRESS 5.TO EXIT.");
25         printf("\n-----\n");
26         printf("Enter Your Choice: ");
27         scanf("%d",&ch);
28         switch(ch)
29         {
30             case 1:
31                 printf("\nHow Many Records You Want to Add: ");
```

Output

Clear

```
/tmp/6SFgpHArHc.o
MENU
-----
PRESS 1.TO ADD BOOK DETAILS.
PRESS 2.TO DISPLAY BOOK DETAILS.
PRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.
PRESS 4.TO COUNT NUMBER OF BOOKS.
PRESS 5.TO EXIT.
-----
Enter Your Choice: 4
Total Number of Books in Library : 0
-----
MENU
-----
PRESS 1.TO ADD BOOK DETAILS.
PRESS 2.TO DISPLAY BOOK DETAILS.
PRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.
PRESS 4.TO COUNT NUMBER OF BOOKS.
PRESS 5.TO EXIT.
-----
Enter Your Choice: |
```


main.c

Run

Clear

```
1 #include<stdio.h>
2 struct player
3 {
4     char name[20];
5     int runs;
6 };
7 int main()
8 {
9     int i,s=0;
10    struct player a[11]; //a[11] - no. of players
11    printf("Enter Name of Player Runs Scored \n");
12    printf("-----\n\t");
13    for(i=0;i<=10;i++)
14    {
15        scanf("%s",a[i].name);
16        scanf("%d",&a[i].runs);
17        printf("\t");
18    }
19    for(i=0;i<=10;i++)
20        s=s+a[i].runs;
21    printf("\n-----\n");
22    printf("Total Runs Scored by Team: %d",s);
23    return 0;
24 }
```

Output

```
/tmp/6SFgpHArHc.o
Enter Name of Player Runs Scored
-----
|
```

main.c

Run

```
1 #include <stdio.h>
2 struct student {
3     char firstName[50];
4     int roll;
5     float marks;
6 } s[5];
7
8 int main() {
9     int i;
10    printf("Enter information of students:\n");
11
12    for (i = 0; i < 5; ++i) {
13        s[i].roll = i + 1;
14        printf("\nFor roll number%d,\n", s[i].roll);
15        printf("Enter first name: ");
16        scanf("%s", s[i].firstName);
17        printf("Enter marks: ");
18        scanf("%f", &s[i].marks);
19    }
20    printf("Displaying Information:\n\n");
21
22    for (i = 0; i < 5; ++i) {
23        printf("\nRoll number: %d\n", i + 1);
24        printf("First name: ");
25        puts(s[i].firstName);
26        printf("Marks: %.1f", s[i].marks);
27        printf("\n");
28    }
29    return 0;
30 }
31
```

Output

Clear

```
/tmp/6SFgpHArHc.o
Enter information of students:

For roll number1,
Enter first name: 1596
Enter marks: 56
For roll number2,
Enter first name: 34
Enter marks: 456
For roll number3,
Enter first name: 45
Enter marks: 3456
For roll number4,
Enter first name: 345
Enter marks: 3456
For roll number5,
Enter first name:
```