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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 struct Employee {
4     int id;
5     char name[50];
6     char designation[50];
7     char department[50];
8     float salary;
9 };
10
11 int main() {
12     struct Employee emp;
13
14     printf("Enter employee ID: ");
15     scanf("%d", &emp.id);
16
17     printf("Enter employee name: ");
18     scanf("%s", emp.name);
19
20     printf("Enter employee designation: ");
21     scanf("%s", emp.designation);
22
23     printf("Enter employee department: ");
24     scanf("%s", emp.department);
25 }
```

```
/tmp/v9DyityNNu.o
Enter employee ID: 276
Enter employee name: Parth
Enter employee designation: Manager
Enter employee department: Production
Enter employee salary: 30000
Employee Details:
ID: 276
Name: Parth
Designation: Manager
Department: Production
Salary: 30000.00
```

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Run

Output

Clear

```
14 printf("Enter employee ID: ");
15 scanf("%d", &emp.id);
16
17 printf("Enter employee name: ");
18 scanf("%s", emp.name);
19
20 printf("Enter employee designation: ");
21 scanf("%s", emp.designation);
22
23 printf("Enter employee department: ");
24 scanf("%s", emp.department);
25
26 printf("Enter employee salary: ");
27 scanf("%f", &emp.salary);
28
29 printf("\nEmployee Details:\n");
30 printf("ID: %d\n", emp.id);
31 printf("Name: %s\n", emp.name);
32 printf("Designation: %s\n", emp.designation);
33 printf("Department: %s\n", emp.department);
34 printf("Salary: %.2f\n", emp.salary);
35
36 return 0;
37 }
38
```

/tmp/v9DyityNNu.o

Enter employee ID: 276
Enter employee name: Parth
Enter employee designation: Manager
Enter employee department: Production
Enter employee salary: 30000
Employee Details:
ID: 276
Name: Parth
Designation: Manager
Department: Production
Salary: 30000.00

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main.c

Run

Output


Clear

```
1 #include <stdio.h>
2
3 struct Player {
4     char name[50];
5     int runs;
6 };
7
8 int main() {
9     struct Player team[11];
10    int i, total_runs = 0;
11
12    printf("Enter the batting information of the cricket team:\n");
13
14    for(i=0; i<11; i++) {
15        printf("Enter the name of player %d: ", i+1);
16        scanf("%s", team[i].name);
17
18        printf("Enter the runs scored by %s: ", team[i].name);
19        scanf("%d", &team[i].runs);
20
21        total_runs += team[i].runs;
22    }
23
24    printf("\nTotal runs scored by the cricket team: %d\n", total_runs);
25
```

Enter the batting information of the cricket team:
Enter the name of player 1: Virat
Enter the runs scored by Virat: 50
Enter the name of player 2: Dhoni
Enter the runs scored by Dhoni: 30
Enter the name of player 3: Yuvraj
Enter the runs scored by Yuvraj: 30
Enter the name of player 4: Rohit
Enter the runs scored by Rohit: 40
Enter the name of player 5: Aswin
Enter the runs scored by Aswin: 25
Enter the name of player 6: Raina
Enter the runs scored by Raina: 36
Enter the name of player 7: Gautam
Enter the runs scored by Gautam: 20
Enter the name of player 8: Jadeja
Enter the runs scored by Jadeja: 10
Enter the name of player 9: Dhawan
Enter the runs scored by Dhawan: 49
Enter the name of player 10: Rahane
Enter the runs scored by Rahane: 23
Enter the name of player 11: Rahul
Enter the runs scored by Rahul: 15
Total runs scored by the cricket team: 328

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <time.h>
5
6 struct Student {
7     char name[50];
8     int roll;
9     int bday, bmonth, byear; // birthday
10    int aday, amonth, ayear; // admission date
11 };
12
13 int main() {
14     struct Student std;
15     int age;
16     time_t t = time(NULL);
17     struct tm current_time = *localtime(&t);
18
19     printf("Enter student name: ");
20     scanf("%s", std.name);
21
22     printf("Enter student roll number: ");
23     scanf("%d", &std.roll);
24
25     printf("Enter student birthday (dd/mm/yyyy): ");
```

```
/tmp/AmC28I6zXt.o
Enter student name: Sapna
Enter student roll number: 1
Enter student birthday (dd/mm/yyyy): 05/09/1988
Enter admission date (dd/mm/yyyy): 25/01/2017
Student Details:
Name: Sapna
Roll number: 1
Age at the time of admission: 34
```

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22printf("Enter student roll number: ");

23scanf("%d", &std.roll);

24

25printf("Enter student birthday (dd/mm/yyyy): ");

26scanf("%d/%d/%d", &std.bday, &std.bmonth, &std.byear);

27

28printf("Enter admission date (dd/mm/yyyy): ");

29scanf("%d/%d/%d", &std.aday, &std.amonth, &std.ayear);

30

31// Calculate age at the time of admission

32age = current_time.tm_year + 1900 - std.byear;

33+if (current_time.tm_mon + 1 < std.bmonth ||

34+ (current_time.tm_mon + 1 == std.bmonth && current_time.tm_mday < std

35+ .bday)) {

36+ age--;

37+ }

38printf("\nStudent Details:\n");

39printf("Name: %s\n", std.name);

40printf("Roll number: %d\n", std.roll);

41printf("Age at the time of admission: %d\n", age);

42

43return 0;

44+ }

45

Run

Output

Clear

/tmp/AmC28I6zXt.o
Enter student name: Sapna
Enter student roll number: 1
Enter student birthday (dd/mm/yyyy): 05/09/1988
Enter admission date (dd/mm/yyyy): 25/01/2017
Student Details:
Name: Sapna
Roll number: 1
Age at the time of admission: 34

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3
4 struct Customer {
5     int account_no;
6     char name[50];
7     float balance;
8 };
9
10 void print_low_balance_customers(struct Customer cust[], int n) {
11     int i;
12
13     printf("Customers with balance less than 100 Rs:\n");
14     for (i=0; i<n; i++) {
15         if (cust[i].balance < 100) {
16             printf("Account no: %d, Name: %s\n", cust[i].account_no, cust[i].name);
17         }
18     }
19 }
20
21 int main() {
22     struct Customer cust[3];
23     int i;
24 }
```

```
/tmp/oCuSEPAaeG.o
Enter the details of 3 customers:
Enter account number for customer 1: 1109
Enter name for customer 1: Roshan
Enter balance for customer 1: 89
Enter account number for customer 2: 3012
Enter name for customer 2: Prajakta
Enter balance for customer 2: 550
Enter account number for customer 3: 59198
Enter name for customer 3: Sapna
Enter balance for customer 3: 78
Customers with balance less than 100 Rs:
Account no: 1109, Name: Roshan
Account no: 59198, Name: Sapna
```

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main.c

17 }
18 }
19 }
20 }
21 int main() {
22 struct Customer cust[3];
23 int i;
24 }
25 printf("Enter the details of 3 customers:\n");
26 for (i=0; i<3; i++) {
27 printf("Enter account number for customer %d: ", i+1);
28 scanf("%d", &cust[i].account_no);
29 }
30 printf("Enter name for customer %d: ", i+1);
31 scanf("%s", cust[i].name);
32 }
33 printf("Enter balance for customer %d: ", i+1);
34 scanf("%f", &cust[i].balance);
35 }
36 }
37 print_low_balance_customers(cust, 3);
38 }
39 return 0;
40 }
41 }

Run


Output

Clear

/tmp/oCuSEPAaeG.o
Enter the details of 3 customers:
Enter account number for customer 1: 1109
Enter name for customer 1: Roshan
Enter balance for customer 1: 89
Enter account number for customer 2: 3012
Enter name for customer 2: Prajakta
Enter balance for customer 2: 550
Enter account number for customer 3: 59198
Enter name for customer 3: Sapna
Enter balance for customer 3: 78
Customers with balance less than 100 Rs:
Account no: 1109, Name: Roshan
Account no: 59198, Name: Sapna

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3
4 #define MAX_BOOKS 100
5
6 struct Book {
7     char title[50];
8     char author[50];
9     int year;
10 };
11
12 struct Library {
13     struct Book books[MAX_BOOKS];
14     int count;
15 };
16
17 void add_book(struct Library *lib) {
18     struct Book new_book;
19
20     printf("Enter title: ");
21     scanf("%s", new_book.title);
22
23     printf("Enter author: ");
24     scanf("%s", new_book.author);
25 }
```

```
/tmp/mbP07XXKagT.o
Library Management System
1. Add book details
2. Display book details
3. List all books of given author
4. List the count of books in the library
5. Exit
Enter your choice (1-5): 1
Enter title: C_Programming
Enter author: Manas,Gosh
Enter year: 2023
Book added to the library successfully.

Library Management System
1. Add book details
2. Display book details
3. List all books of given author
4. List the count of books in the library
5. Exit
Enter your choice (1-5): 2
Title Author Year
C_Programming Manas,Gosh 2023

Library Management System
1. Add book details
```

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26

printf("Enter year: ");

27

scanf("%d", &new_book.year);

28

29

lib->books[lib->count] = new_book;

30

lib->count++;

31

32

printf("Book added to the library successfully.\n");

33

}

34

35

void display_books(struct Library lib) {

36

int i;

37

38

if (lib.count == 0) {

39

printf("No books in the library.\n");

40

return;

41

}

42

43

printf("%-30s %-30s %-4s\n", "Title", "Author", "Year");

44

for (i=0; i<lib.count; i++) {

45

printf("%-30s %-30s %-4d\n", lib.books[i].title, lib.books[i].author,

lib.books[i].year);

46

}

47

}

48

49

void list_books_by_author(struct Library lib) {

Run

Output

Clear

/tmp/mbP07XXkagT.o

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 1

Enter title: C_Programming

Enter author: Manas,Gosh

Enter year: 2023

Book added to the library successfully.

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 2

Title	Author	Year
C_Programming	Manas,Gosh	2023

Library Management System

1. Add book details

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main.c

50 char author[50];

51 int i, found = 0;

52

53 printf("Enter author name: ");

54 scanf("%s", author);

55

56 printf("Books by author %s:\n", author);

57 for (i=0; i<lib.count; i++) {

58 if (strcmp(lib.books[i].author, author) == 0) {

59 printf("%s\n", lib.books[i].title);

60 found = 1;

61 }

62 }

63

64 if (!found) {

65 printf("No books found for author %s.\n", author);

66 }

67 }

68

69 void list_book_count(struct Library lib) {

70 printf("Total books in the library: %d\n", lib.count);

71 }

72

73 int main() {

74 struct Library lib;

Run

Output

Clear

/tmp/mbP07XXKagT.o

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 1

Enter title: C_Programming

Enter author: Manas,Gosh

Enter year: 2023

Book added to the library successfully.

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 2

Title	Author	Year
C_Programming	Manas,Gosh	2023

Library Management System

1. Add book details

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```
int choice;

lib.count = 0;

do {
    printf("\nLibrary Management System\n");
    printf("1. Add book details\n");
    printf("2. Display book details\n");
    printf("3. List all books of given author\n");
    printf("4. List the count of books in the library\n");
    printf("5. Exit\n");
    printf("Enter your choice (1-5): ");
    scanf("%d", &choice);

    switch (choice) {
        case 1:
            add_book(&lib);
            break;
        case 2:
            display_books(lib);
            break;
        case 3:
            list_books_by_author(lib);
            break;
        case 4:
```

Run

Output

Clear

/tmp/mbP07XXkagT.o

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 1

Enter title: C_Programming

Enter author: Manas,Gosh

Enter year: 2023

Book added to the library successfully.

Library Management System

1. Add book details

2. Display book details

3. List all books of given author

4. List the count of books in the library

5. Exit

Enter your choice (1-5): 2

Title	Author	Year
C_Programming	Manas,Gosh	2023

Library Management System

1. Add book details

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```
switch (choice) {  
    case 1:  
        add_book(&lib);  
        break;  
    case 2:  
        display_books(lib);  
        break;  
    case 3:  
        list_books_by_author(lib);  
        break;  
    case 4:  
        list_book_count(lib);  
        break;  
    case 5:  
        printf("Exiting program...\n");  
        break;  
    default:  
        printf("Invalid choice. Please enter a number between 1 and 5\n");  
        .\n");  
}  
} while (choice != 5);  
return 0;  
}
```

Run

Output

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/tmp/mbP07XXKagT.o
Library Management System
1. Add book details
2. Display book details
3. List all books of given author
4. List the count of books in the library
5. Exit
Enter your choice (1-5): 1
Enter title: C_Programming
Enter author: Manas,Gosh
Enter year: 2023
Book added to the library successfully.

Library Management System
1. Add book details
2. Display book details
3. List all books of given author
4. List the count of books in the library
5. Exit
Enter your choice (1-5): 2
Title Author Year
C_Programming Manas,Gosh 2023

Library Management System
1. Add book details

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main.c

1 #include <stdio.h>
2 #include <string.h>
3
4 #define MAX_STUDENTS 100
5
6 struct Student {
7 int roll_no;
8 char stud_name[50];
9 int mark1;
10 int mark2;
11 int mark3;
12 int total_marks;
13 float avg_marks;
14 };
15
16 void calculate_marks(struct Student *stud) {
17 stud->total_marks = stud->mark1 + stud->mark2 + stud->mark3;
18 stud->avg_marks = stud->total_marks / 3.0;
19 }
20
21 void sort_students(struct Student students[], int n) {
22 int i, j;
23 struct Student temp;
24
25 for (i=0; i<n-1; i++) {

Run

Output


/tmp/oeqznTs9Bn.o
Enter the number of students: 2
Enter details of student 1:
Roll No.: 101
Name: Sapna
Mark 1: 50
Mark 2: 69
Mark 3: 76
Enter details of student 2:
Roll No.: 102
Name: Roshan
Mark 1: 65
Mark 2: 75
Mark 3: 82
Student Records (sorted by descending total marks):

Roll No.	Name	Mark 1	Mark 2	Mark 3	Total	Average
102	Roshan	65	75	82	222	74.00
101	Sapna	50	69	76	195	65.00

Clear

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main.c

for (j=0; j<n-i-1; j++) {
26-
27- if (students[j].total_marks < students[j+1].total_marks) {
28- temp = students[j];
29- students[j] = students[j+1];
30- students[j+1] = temp;
31- }
32- }
33- }
34- }
35-
36- void display_students(struct Student students[], int n) {
37- int i;
38-
39- printf("%-10s %-20s %-8s %-8s %-8s %-8s %-8s\n", "Roll No.", "Name", "Mark
1", "Mark 2", "Mark 3", "Total", "Average");
40- for (i=0; i<n; i++) {
41- printf("%-10d %-20s %-8d %-8d %-8d %-8d %-8d\n", students[i].roll_no,
students[i].stud_name, students[i].mark1, students[i].mark2,
students[i].mark3, students[i].total_marks, students[i].avg_marks);
42- }
43- }
44-
45- int main() {
46- struct Student students[MAX_STUDENTS];
47- int n, i;

Run

Output

Clear

/tmp/oeqznTs9Bn.o

Enter the number of students: 2
Enter details of student 1:
Roll No.: 101
Name: Sapna
Mark 1: 50
Mark 2: 69
Mark 3: 76
Enter details of student 2:
Roll No.: 102
Name: Roshan
Mark 1: 65
Mark 2: 75
Mark 3: 82
Student Records (sorted by descending total marks):

Roll No.	Name	Mark 1	Mark 2	Mark 3	Total	Average
102	Roshan	65	75	82	222	74.00
101	Sapna	50	69	76	195	65.00

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main.c

50 scanf("%d", &n);

51

52- for (i=0; i<n; i++) {

53 printf("Enter details of student %d:\n", i+1);

54 printf("Roll No.: ");

55 scanf("%d", &students[i].roll_no);

56 printf("Name: ");

57 scanf("%s", students[i].stud_name);

58 printf("Mark 1: ");

59 scanf("%d", &students[i].mark1);

60 printf("Mark 2: ");

61 scanf("%d", &students[i].mark2);

62 printf("Mark 3: ");

63 scanf("%d", &students[i].mark3);

64

65 calculate_marks(&students[i]);

66 }

67

68 sort_students(students, n);

69

70 printf("\nStudent Records (sorted by descending total marks):\n");

71 display_students(students, n);

72

73 return 0;

74 }

Run

Output

Clear

/tmp/oeqznTs9Bn.o

Enter the number of students: 2

Enter details of student 1:

Roll No.: 101

Name: Sapna

Mark 1: 50

Mark 2: 69

Mark 3: 76

Enter details of student 2:

Roll No.: 102

Name: Roshan

Mark 1: 65

Mark 2: 75

Mark 3: 82

Student Records (sorted by descending total marks):

Roll No.	Name	Mark 1	Mark 2	Mark 3	Total	Average
102	Roshan	65	75	82	222	74.00
101	Sapna	50	69	76	195	65.00

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main.c

Run

Output


Clear

```
1 #include <stdio.h>
2
3 union Data {
4     int i;
5     float f;
6 };
7
8 int main(){
9     union Data data;
10    int choice;
11
12    printf("Enter 1 to enter an integer value, or 2 to enter a float value: ");
13    scanf("%d", &choice);
14
15    if (choice == 1) {
16        printf("Enter an integer value: ");
17        scanf("%d", &data.i);
18        printf("You entered %d\n", data.i);
19    } else if (choice == 2) {
20        printf("Enter a float value: ");
21        scanf("%f", &data.f);
22        printf("You entered %f\n", data.f);
23    } else {
24        printf("Invalid choice.\n");
25    }
}
```

```
/tmp/aUdJeFalkI.o
Enter 1 to enter an integer value, or 2 to enter a float value: 1
Enter an integer value: 23
You entered 23
|
```

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5 float f;

6 };

7

8 int main() {

9 union Data data;

10 int choice;

11

12 printf("Enter 1 to enter an integer value, or 2 to enter a float value: ");

13 scanf("%d", &choice);

14

15 if (choice == 1) {

16 printf("Enter an integer value: ");

17 scanf("%d", &data.i);

18 printf("You entered %d\n", data.i);

19 } else if (choice == 2) {

20 printf("Enter a float value: ");

21 scanf("%f", &data.f);

22 printf("You entered %f\n", data.f);

23 } else {

24 printf("Invalid choice.\n");

25 }

26

27 return 0;

28 }

29

Run

Output

Clear

/tmp/aUdJeFalkI.o


Enter 1 to enter an integer value, or 2 to enter a float value: 1

Enter an integer value: 23

You entered 23

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main.c

Run

Output

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```
1 #include <stdio.h>
2
3 union student {
4     char name[50];
5     float gpa;
6 };
7
8 int main() {
9     union student s;
10
11     printf("Enter student name: ");
12     scanf("%s", s.name);
13
14     printf("Enter student GPA: ");
15     scanf("%f", &s.gpa);
16
17     printf("Student name: %s", s.name);
18     printf("Student GPA: %.2f\n", s.gpa);
19
20     return 0;
21 }
22
```

/tmp/m5Znp5FTT6.o
Enter student name: hi
Enter student GPA: 7
Student name: Student GPA: 7.00

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Run

Output

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```
1 #include <stdio.h>
2
3 #define PI 3.14159
4
5 union shape {
6     float radius;
7     struct {
8         float length;
9         float width;
10    } rectangle;
11 };
12
13 int main() {
14     union shape s;
15     char type;
16
17     printf("Enter the shape you want to calculate (c for circle, r for
    rectangle): ");
18     scanf(" %c", &type);
19
20     if (type == 'c') {
21         printf("Enter the radius of the circle: ");
22         scanf("%f", &s.radius);
23         printf("The area of the circle is: %.2f\n", PI * s.radius * s.radius);
24     }
```

```
/tmp/m5Znp5FTT6.o
Enter the shape you want to calculate (c for circle, r for rectangle): c
Enter the radius of the circle: 7
The area of the circle is: 153.94
```

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```
15 char type;
16
17 printf("Enter the shape you want to calculate (c for circle, r for
18 rectangle): ");
19 scanf(" %c", &type);
20
21 if (type == 'c') {
22     printf("Enter the radius of the circle: ");
23     scanf("%f", &s.radius);
24     printf("The area of the circle is: %.2f\n", PI * s.radius * s.radius);
25 }
26 else if (type == 'r') {
27     printf("Enter the length and width of the rectangle: ");
28     scanf("%f %f", &s.rectangle.length, &s.rectangle.width);
29     printf("The area of the rectangle is: %.2f\n", s.rectangle.length * s
30 .rectangle.width);
31 }
32 else {
33     printf("Invalid shape type entered.\n");
34 }
35
36 return 0;
37 }
```

Output

Clear

/tmp/m5Znp5FT6.o

Enter the shape you want to calculate (c for circle, r for rectangle): c

Enter the radius of the circle: 7

The area of the circle is: 153.94

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