

main.c

```

1  #include <stdio.h>
2
3  /*structure declaration*/
4  struct employee{
5      char   name[30];
6      int    empId;
7      float  salary;
8  };
9
10 int main()
11 {
12     struct employee emp;
13
14     printf("\nEnter details :\n");
15     printf("Name ?:");      gets(emp.name);
16     printf("ID ?:");        scanf("%d",&emp.empId);
17     printf("Salary ?:");    scanf("%f",&emp.salary);
18
19     /*print employee details*/
20     printf("\nEnter detail is:");
21     printf("Name: %s",emp.name);
22     printf("Id: %d",emp.empId);
23     printf("Salary: %f\n",emp.salary);
24     return 0;
25 }
26

```

Run

Output

```

/tmp/BQW8dgr10U.o
Enter details :
Name ?:ram
ID ?:1
Salary ?:90
Entered detail is:Name: ramId: 1Salary: 90.000000

```

main.c

```
1 #include <stdio.h>
2 struct player
3 {
4     char name[3];
5     int runs;
6 };
7
8 int main( )
9 {
10     int i, s = 0;
11     struct player a[11];
12     printf("\n Enter Name of Player Runs Scored \n");
13     printf("-----\n");
14     for(i = 0; i <= 10; i++)
15     {
16         printf(" Enter %d Player Name : ", i + 1);
17         scanf("%s", a[i].name);
18         printf(" Enter %d Player Runs : ", i + 1);
19         scanf("%d", &a[i].runs);
20     }
21     for(i = 0; i <= 10; i++)
22         s = s + a[i].runs;
23
24     printf("\n -----");
25     printf("\n Runs Scored by Player \n");
26     printf(" Name \t\tRuns\n");
27     for(i = 0; i <= 10; i++)
```

Run

Output

```
Enter 0 Player Runs : 30
Enter 7 Player Name : shreyas
Enter 7 Player Runs : 32
Enter 8 Player Name : patel
Enter 8 Player Runs : 7
Enter 9 Player Name : nattu
Enter 9 Player Runs : 8
Enter 10 Player Name : raina
Enter 10 Player Runs : 7
Enter 11 Player Name : warner
Enter 11 Player Runs : 34
```

Runs Scored by Player

Name	Runs
dhone	101
bravY	89
hardG	71
rohi	0
vira	17
pant2	50
shre	32
pate	7
natt	8
rain	7
warn	34

Total Runs Scored by Team: 416

28°C
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main.c

```
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    for (i = 0; i < 5; ++i) {
22        printf("\nRoll number: %d\n", i + 1);
23        printf("First name: ");
24        puts(s[i].firstName);
25        printf("Marks: %.1f", s[i].marks);
26        printf("\n");
27    }
```

Run

Output

Enter marks: 90.0
For roll number5,
Enter first name: jo
Enter marks: 45
Displaying Information:

Roll number: 1
First name: kavya
Marks: 90.0

Roll number: 2
First name: sai
Marks: 89.0

Roll number: 3
First name: dowdy
Marks: 78.0

Roll number: 4
First name: bharath
Marks: 56.0

Roll number: 5
First name: jo
Marks: 45.0

main.c

```
1 #include <stdio.h>
2 struct bank
3 {
4     int acc_no ;
5     char name[3] ;
6     int bal ;
7 } b[3] ;
8
9 void check( struct bank b[], int n )
10 {
11     int i ;
12     printf("\n Customer Details whose Balance < 100 Rs. \n") ;
13     printf(" ----- \n") ;
14     for( i = 0 ; i < n ; i++ )
15     {
16         if( b[i].bal < 100 )
17         {
18             printf(" Account Number : %d\n",b[i].acc_no ) ;
19             printf(" Name : %s\n",b[i].name ) ;
20             printf(" Balance : %d\n",b[i].bal ) ;
21             printf(" ----- \n") ;
22         }
23     }
24 }
25
26 int main( )
27 {
```

Output

```
/tmp/wEcnm1h85x.o
Enter Details of Customer 1
-----
Enter Account Number : 56
Enter Name : sai
Enter Balance : 89
-----
Enter Details of Customer 2
-----
Enter Account Number : 20
Enter Name : kumar
Enter Balance : 100
-----
Enter Details of Customer 3
-----
Enter Account Number : qwerty
Enter Name : Enter Balance : 900
-----
Customer Details whose Balance < 100 Rs.
-----
Account Number : 56
Name : sai
Balance : 89
-----
```



main.c

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

Run

Output

```
Name : Salary : 20000
-----
Enter 3 employees details !
Employee Number: ilakkiya
Name : Salary : 30000
-----
Enter 4 employees details !
Employee Number: bhava
Name : Salary : 40000
-----
Enter 5 employees details !
Employee Number: kalpi
Name : Salary : 50000
-----
Enter 6 employees details !
Employee Number: kaviya
Name : Salary : 60000
-----
Enter 7 employees details !
Employee Number: oviya
Name : Salary : 70000
-----
Highest salary employee details:
-----
EMPNO NAME SALARY
0 oviya 70000
```


main.c

```
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
12 int main( )
13 {
14     struct book b[20] ; int ch, n, i, count = 0 ; char temp[40] ; do
15 { printf("\t\tMENU") ;
16 printf("\n ----- \n") ;
17 printf(" PRESS 1.TO ADD BOOK DETAILS.") ;
18 printf("\n PRESS 2.TO DISPLAY BOOK DETAILS.") ;
19 printf("\n PRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.") ;
20 printf("\n PRESS 4.TO COUNT NUMBER OF BOOKS.") ;
21 printf("\n PRESS 5.TO EXIT.") ;
22 printf("\n ----- \n") ;
23 printf(" Enter Your Choice: ") ;
24 scanf( "%d", &ch ) ;
25 switch(ch)
26 {
27     case 1:
```

Output

```
/tmp/wEcnm1h85x.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: 1
How Many Records You Want to Add: 5
-----
Add Details of 5 Book
-----
Enter Book No. : 890
Book Name : wonderland
Enter Author Name : john
Enter No. of Pages : 90
-----
Enter Book No. : |
```


main.c



Run

Output

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

```
Enter marks: 0/
For roll number5,
Enter first name: linkesh
Enter marks: 59
Displaying Information:

Roll number: 1
First name: bharath
Marks: 89.0

Roll number: 2
First name: badrio
Marks: 90.0

Roll number: 3
First name: girish
Marks: 99.0

Roll number: 4
First name: mithin
Marks: 87.0

Roll number: 5
First name: linkesh
Marks: 59.0
```



main.c

```
1 #include <stdio.h>
2
3 union data {
4     int integer;
5     float floating_point;
6 };
7
8 int main() {
9     union data d;
10    char input_type;
11
12    printf("Enter the type of input you want to enter (i for integer, f for floating point): ");
13    scanf("%c", &input_type);
14
15    if (input_type == 'i') {
16        printf("Enter an integer value: ");
17        scanf("%d", &d.integer);
18        printf("The value you entered is: %d\n", d.integer);
19    }
20    else if (input_type == 'f') {
21        printf("Enter a floating point value: ");
22        scanf("%f", &d.floating_point);
23        printf("The value you entered is: %f\n", d.floating_point);
24    }
25    else {
26        printf("Invalid input type entered\n");
27    }
28 }
```

Run

Output

/tmp/wEcrlh85x.o

Enter the type of input you want to enter (i for integer, f for floating point):

Enter a floating point value: 7

The value you entered is: 7.000000

main.c

Run

Output

```
1 #include <stdio.h>
2
3 union records {
4     char first_name[50];
5     char last_name[50];
6     int roll_number;
7     float marks;
8 };
9
10 int main() {
11     int x, i;
12
13     printf("Enter the number of students: ");
14     scanf("%d", &x);
15     union records student[x];
16     printf("\nEnter the students's informations:\n");
17     for (i = 0; i < x; i++) {
18         student[i].roll_number = (i + 1);
19         printf("\nInformation for Roll Number:\t%d\n", student[i].roll_number);
20
21         printf("Enter the first name: ");
22         scanf("%s", student[i].first_name);
23
24         printf("Enter the last name: ");
25         scanf("%s", student[i].last_name);
26
27         printf("Enter the marks: ");
```

```
/tmp/wEcnm1h85x.o
Enter the number of students: 2
Enter the students's informations:
Information for Roll Number: 1
Enter the first name: sai
Enter the last name: kishore
Enter the marks: 89
Information for Roll Number: 2
Enter the first name: girish
Enter the last name: dowdy
Enter the marks: 89
Display the student's information:

The Roll Number: 1
The First Name:
The Last Name:
The Marks: 89.0

The Roll Number: 2
The First Name:
The Last Name:
The Marks: 89.0
```




main.c



Run

Output

```
1 #include <stdio.h>
2
3 #define PI 3.14159265358979323846
4
5 union union_shape {
6     float radius;
7     struct {
8         float length;
9         float width;
10    } rectangle;
11 };
12
13 int main() {
14     union union_shape shape;
15     char shape_type;
16
17     printf("Enter shape type (c for circle, r for rectangle): ");
18     scanf("%c", &shape_type);
19
20     if (shape_type == 'c') {
21         printf("Enter radius of circle: ");
22         scanf("%f", &shape.radius);
23
24         printf("Area of circle: %.2f\n", PI * shape.radius * shape.radius);
25     } else if (shape_type == 'r') {
26         printf("Enter length of rectangle: ");
27         scanf("%f", &shape.rectangle.length);
```

/tmp/wEcnmlh85x.o

Enter shape type (c for circle, r for rectangle): c

Enter radius of circle: 6

Area of circle: 113.10

