

```

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 }

```

Code + - - - x

```

virat 50
dhoni 30
rohit 40
ashwin 25
raina 36
gauteam 20
jadeja 10
dhawan 49
rahane 23
rahul 15

```

Total Runs Scored by Team: 328

```

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("\tEnter 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");
32     printf("\t%d Years",r);
33     return 0;
34 }

```

Enter Student Details

```

Enter Roll-Number   : 1
Enter Name       : sapna
Enter Birth-Date   : 5-9-1988
Enter Admission-Date : 25-1-2017

```

Approximate Age of Student at the Time of Admission

20 Years

P8 C:\Users\lakshmanan\AppData\Local\Temp> █

```

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;
32     }
33     printf("Highest salary employee details:");
34     printf("\n-----\n");

```

```

Salary      : 22000
-----
Employee Number: 102
Name      : roshan
Salary      : 42000
-----
Highest salary employee details:
-----
EMPNO  NAME  SALARY
-----
102    roshan 42000
PS C:\Users\lakshmanan\AppData\Local\Temp>

```



```

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     }
32     for(i=0;i<2;i++)
33     {
34         for(j=i+1;j<2;j++)

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Enter Marks of Subject 2 : 82

Records in Descending Order.
(According to Total-Marks)

| ROLLNO | NAME | TOTAL-MARKS | AVG |
|--------|--------|-------------|-------|
| 102 | roshan | 222 | 74.00 |
| 101 | raghu | 195 | 65.00 |

P8 C:\Users\lakshmanan\AppData\Local\Temp> []

```

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: ");
32                 scanf("%d",&n);
33                 printf("-----\n");
34                 printf("Add Details of %d Book\n",n);

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

-----
Enter Book No. : 1002
Book Name : c-programming
Enter Author Name : manas-ghosh
Enter No. of Pages : 450
-----
Enter Book No. : 1003
Book Name : networking
Enter Author Name : saenebaum
Enter No. of Pages : 520
-----

```

ME2372

```

8
9 int main() {
10     union student s;
11     char name[50];
12     float gpa;
13
14     printf("Enter the student's name: ");
15     fgets(name, 50, stdin);
16     name[strcspn(name, "\n")] = '\0'; // remove newline character
17
18     printf("Enter the student's GPA: ");
19     scanf("%f", &gpa);
20
21     s.gpa = gpa;
22     strcpy(s.name, name);
23
24     printf("Student name: %s\n", s.name);
25     printf("Student GPA: %.2f\n", gpa);
26
27     return 0;
28 }
29

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code

```

PS C:\Users\lakhmanan\AppData\Local\Temp> cd "C:\Users\LAKSHM-I\AppData\Local\Temp"
PS C:\Users\lakhmanan\AppData\Local\Temp> cd "C:\Users\LAKSHM-I\AppData\Local\Temp\" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCod

```

```

> cd "C:\Users\LAKSHM-I\AppData\Local\Temp\" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }

```

```

Enter the student's name: subash
Enter the student's GPA: 2.5
Student name: subash
Student GPA: 2.50
PS C:\Users\lakhmanan\AppData\Local\Temp>

```

```

1 #include <stdio.h>
2
3 union Data {
4     int i;
5     float f;
6 };
7
8 int main() {
9     union Data data;
10    char inputType;
11
12    printf("Enter a value (integer or float): ");
13    scanf("%c", &inputType);
14
15    if (inputType == 'i') {
16        printf("Enter an integer value: ");
17        scanf("%d", &data.i);
18        printf("You entered an integer value: %d\n", data.i);
19    } else if (inputType == 'f') {
20        printf("Enter a float value: ");
21        scanf("%f", &data.f);
22        printf("You entered a float value: %f\n", data.f);
23    } else {
24        printf("Invalid input type.\n");
25    }
26
27    return 0;
28 }
29

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + - - - x

```

PS C:\Users\lakhmanan> cd "C:\Users\LAKSHM-I\AppData\Local\Temp"
PS C:\Users\lakhmanan\AppData\Local\Temp> cd "C:\Users\LAKSHM-I\AppData\Local\Temp" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
Enter a value (integer or float): f
Enter a float value: 2.55
You entered a float value: 2.550000
PS C:\Users\lakhmanan\AppData\Local\Temp>

```


EXPLORER

OPEN EDITORS 10 Unsaved

- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...
- C #include <stdio.h> ...

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

#include <stdio.h>

/* Defining Structure*/

struct bank

{

int acc_no;

char name[20];

int bal;

b[3];

/*Function to find the details of customer whose balance < 100.*/

void check(struct bank b[],int n) /*Passing Array of structure to function*/

{

int i;

printf("\nCustomer Details whose Balance < 100 Rs. \n");

printf("-----\n");

for(i=0;i<n;i++)

{

if(b[i].bal<100)

printf("Account Number : %d\n",b[i].acc_no);

printf("Name : %s\n",b[i].name);

printf("Balance : %d\n",b[i].bal);

printf("-----\n");

}

}

int main()

{

int i;

for(i=0;i<3;i++)

{

printf("Enter Details of Customer %d\n",i+1);

printf("-----\n");

printf("Enter Account Number : ");

scanf("%d",&b[i].acc_no);

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Customer Details whose Balance < 100 Rs.

Account Number : 1199

Name : roshan

Balance : 89

Account Number : 1109

Name : sagna

Balance : 79

98 C:\Users\lakshmanan\AppData\Local\Temp>

+ ... x

Code

Code

```
1 #include <stdio.h>
2 #include <math.h>
3
4 union shape {
5     float radius;
6     struct {
7         float length;
8         float width;
9     } rectangle;
10 };
11
12 int main() {
13     union shape s;
14     char shape_type;
15
16     printf("Enter the type of shape you want to calculate (c for circle, r for rectangle): ");
17     scanf("%c", &shape_type);
18
19     if (shape_type == 'c') {
20         printf("Enter the radius of the circle: ");
21         scanf("%f", &s.radius);
22         float area = M_PI * pow(s.radius, 2);
23         printf("The area of the circle is: %.2f\n", area);
24     }
25     else if (shape_type == 'r') {
26         printf("Enter the length of the rectangle: ");
27         scanf("%f", &s.rectangle.length);
28         printf("Enter the width of the rectangle: ");
29         scanf("%f", &s.rectangle.width);
30         float area = s.rectangle.length * s.rectangle.width;
31         printf("The area of the rectangle is: %.2f\n", area);
32     }
33     else {
34         printf("Invalid shape type!\n");
35     }
```

```
> cd "C:\Users\laksmanan\AppData\Local\Temp\" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile ; if ($?) { .\tempCodeRunnerFile }
Enter the type of shape you want to calculate (c for circle, r for rectangle): c
Enter the radius of the circle: 5
The area of the circle is: 78.54
PS C:\Users\laksmanan\AppData\Local\Temp>
```