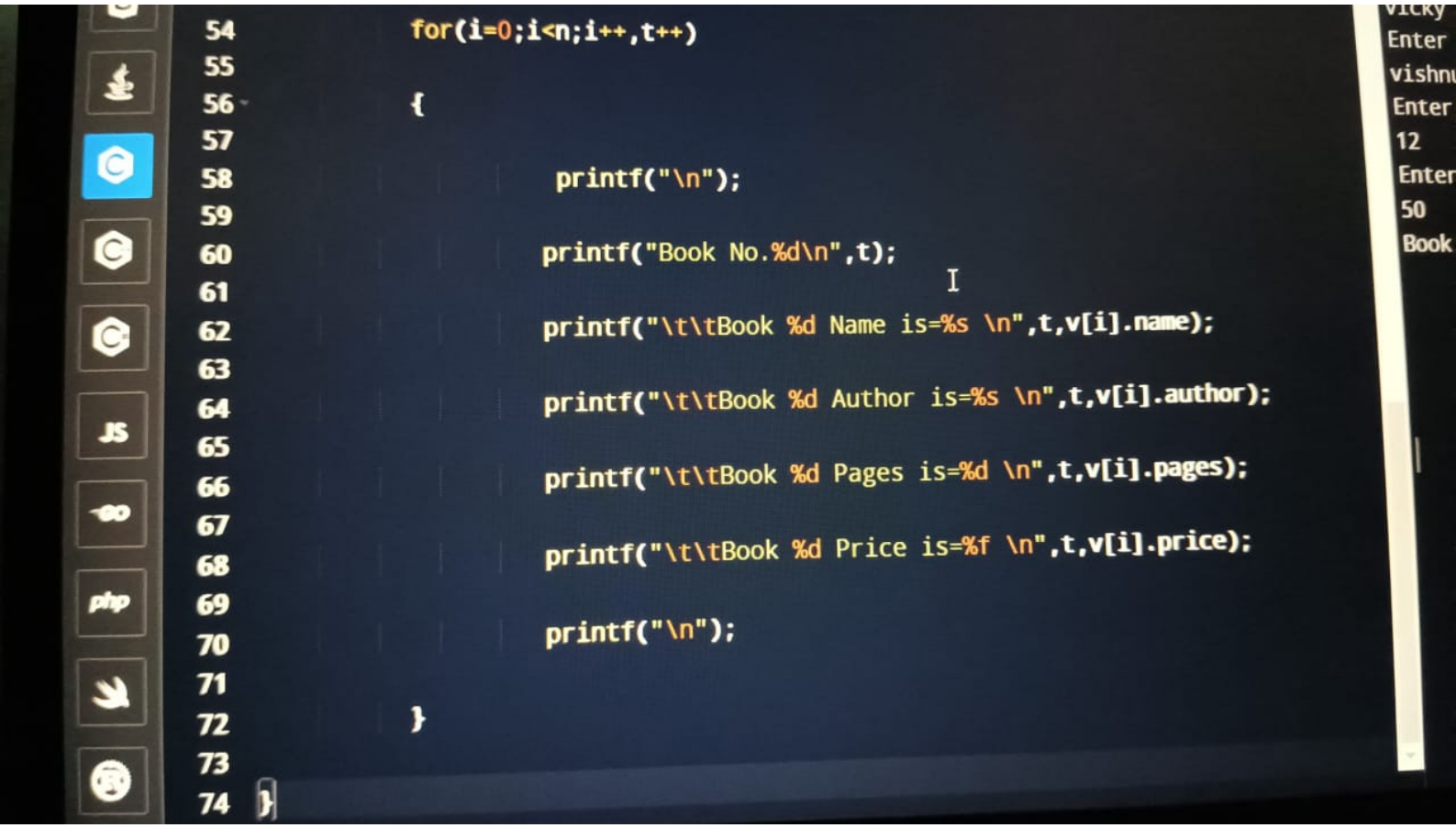
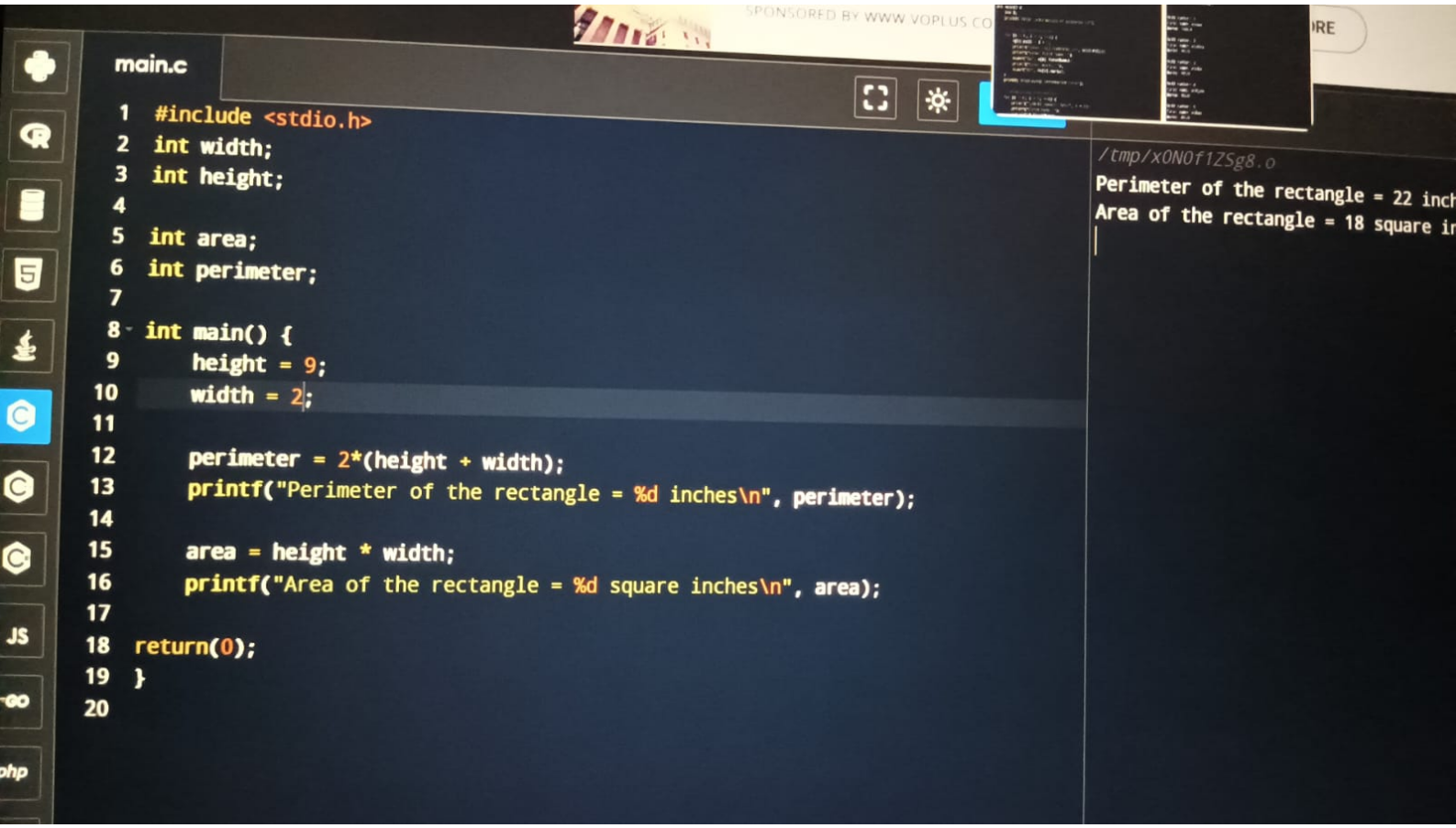
ain.c

```
                printf("\t=:Book %d Detail:=\n",i+1);

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

                printf("Enter the Author of Book:\n");
                scanf("%s",b[i].author);

                printf("Enter the Pages of Book:\n");
                scanf("%d",&b[i].pages);

                printf("Enter the Price of Book:\n");
                scanf("%f",&b[i].price);

        }

        output(b,num);

}

void output(struct bookdetail v[],int n)

{

        int i,t=1;
```


54 for(i=0;i<n;i++,t++)
55
56 {
57
58 printf("\n");
59
60 printf("Book No.%d\n",t);
61
62 printf("\t\tBook %d Name is=%s \n",t,v[i].name);
63
64 printf("\t\tBook %d Author is=%s \n",t,v[i].author);
65
66 printf("\t\tBook %d Pages is=%d \n",t,v[i].pages);
67
68 printf("\t\tBook %d Price is=%f \n",t,v[i].price);
69
70 printf("\n");
71
72 }
73
74 }
Vicky
Enter
vishnu
Enter
12
Enter
50
Book


main.c
#include <stdio.h>
int width;
int height;
int area;
int perimeter;
int main() {
height = 9;
width = 2;
perimeter = 2*(height + width);
printf("Perimeter of the rectangle = %d inches\n", perimeter);
area = height * width;
printf("Area of the rectangle = %d square inches\n", area);
return(0);
}
/tmp/xONOf1ZSg8.o
Perimeter of the rectangle = 22 inch
Area of the rectangle = 18 square in

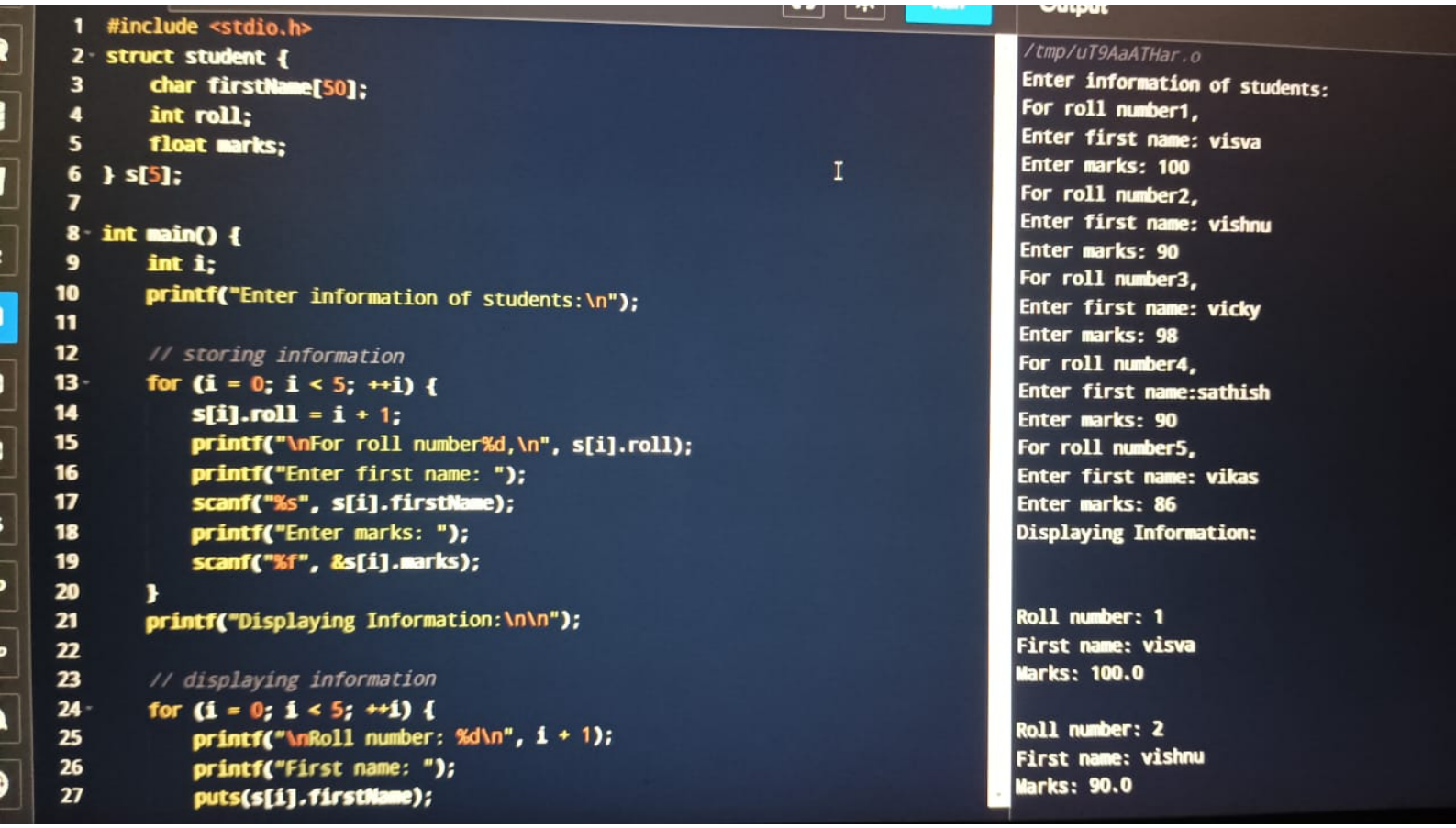
main.c

Run

Output

```c
#include <stdio.h>
#include <string.h>
    struct student {
        char name[50];
        int id;
        float gpa;
    };
int main() {
    struct student s1;

    strcpy(s1.name, "Vishnu");
    s1.id = 12345;
    s1.gpa = 3.75;

        printf("Name: %s\n", s1.name);
        printf("ID: %d\n", s1.id);
        printf("GPA: %.2f\n", s1.gpa);
    return 0;
}
```

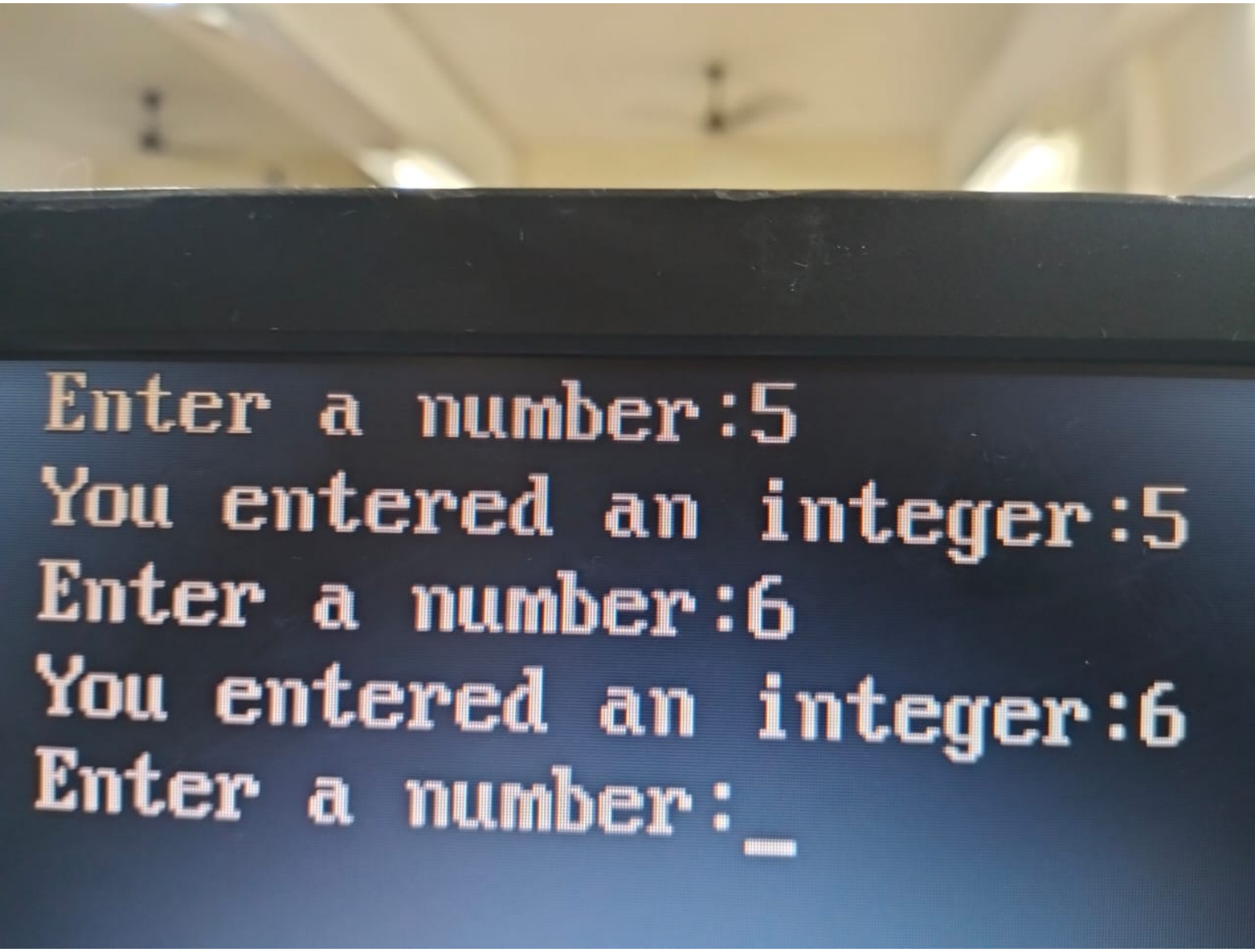
```
/tmp/aVRwsc6QKb.o
Name: Vishnu
ID: 12345
GPA: 3.75
```

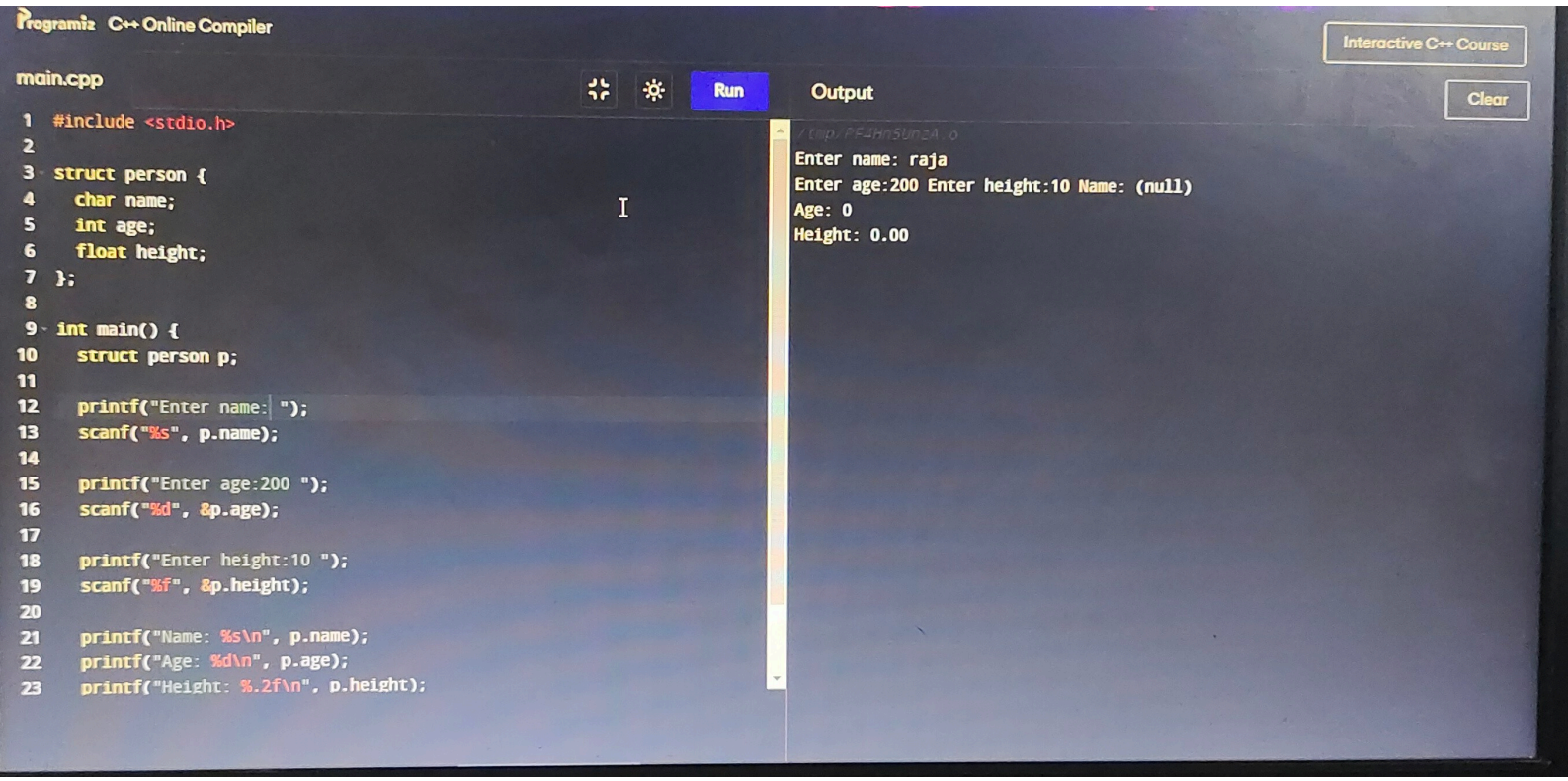


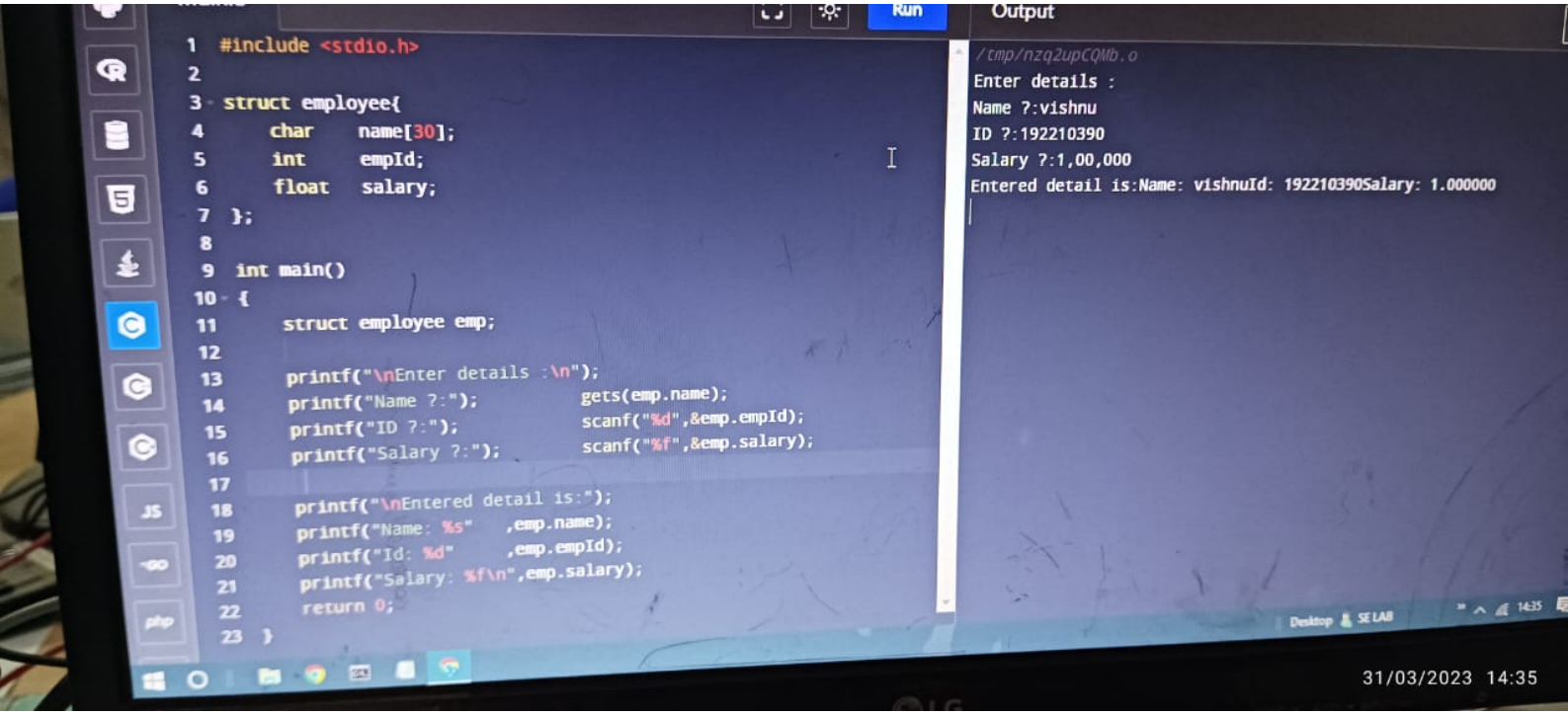
```c
#include <stdio.h>
struct student {
    char firstName[50];
    int roll;
    float marks;
} s[5];

int main() {
    int i;
    printf("Enter information of students:\n");

    // storing information
    for (i = 0; i < 5; ++i) {
        s[i].roll = i + 1;
        printf("\nFor roll number%d,\n", s[i].roll);
        printf("Enter first name: ");
        scanf("%s", s[i].firstName);
        printf("Enter marks: ");
        scanf("%f", &s[i].marks);
    }
    printf("Displaying Information:\n\n");

    // displaying information
    for (i = 0; i < 5; ++i) {
        printf("\nRoll number: %d\n", i + 1);
        printf("First name: ");
        puts(s[i].firstName);
```

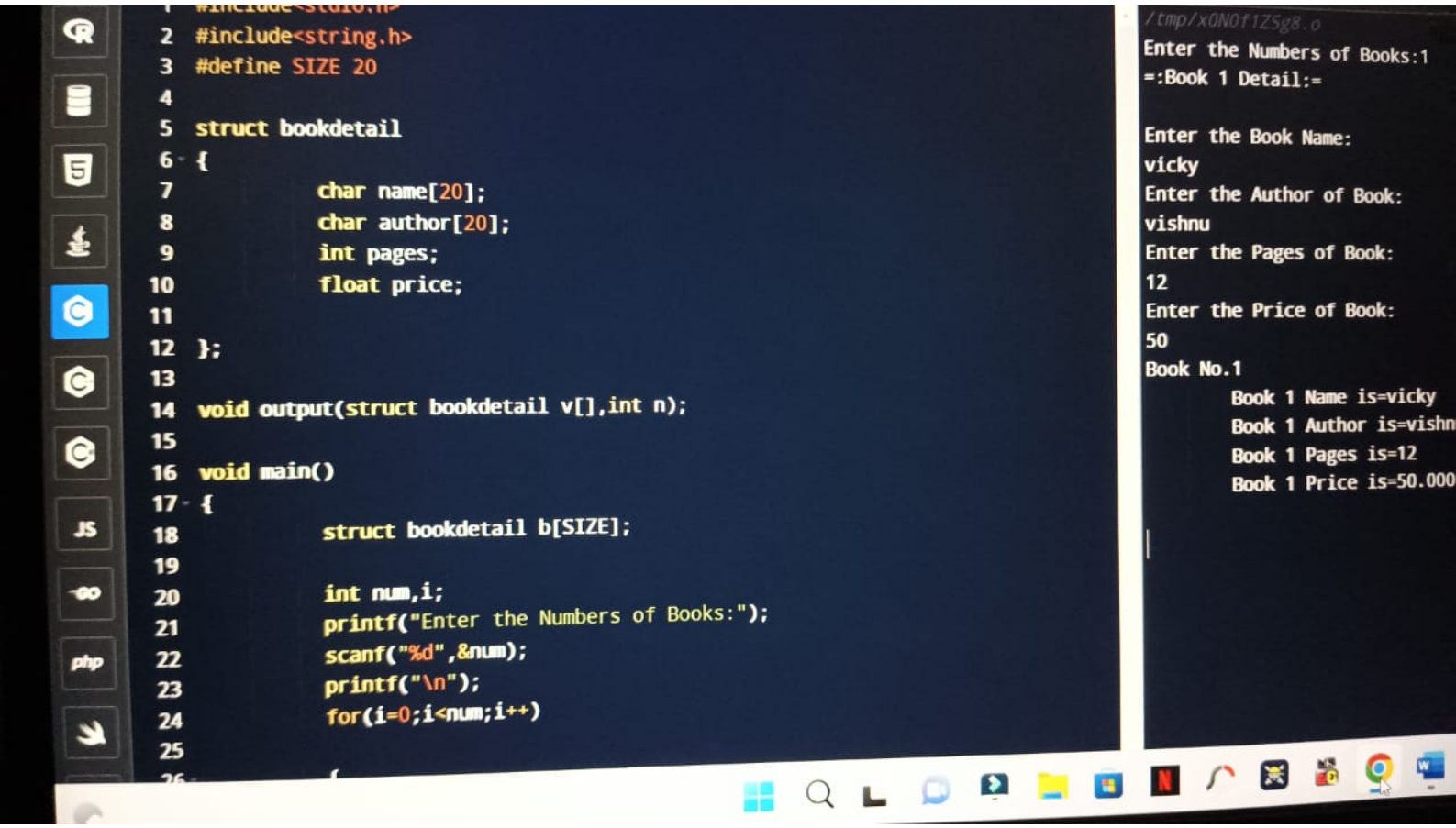
```
/tmp/uT9AaATHar.o
Enter information of students:
For roll number1,
Enter first name: visva
Enter marks: 100
For roll number2,
Enter first name: vishnu
Enter marks: 90
For roll number3,
Enter first name: vicky
Enter marks: 98
For roll number4,
Enter first name:sathish
Enter marks: 90
For roll number5,
Enter first name: vikas
Enter marks: 86
Displaying Information:


Roll number: 1
First name: visva
Marks: 100.0

Roll number: 2
First name: vishnu
Marks: 90.0
```

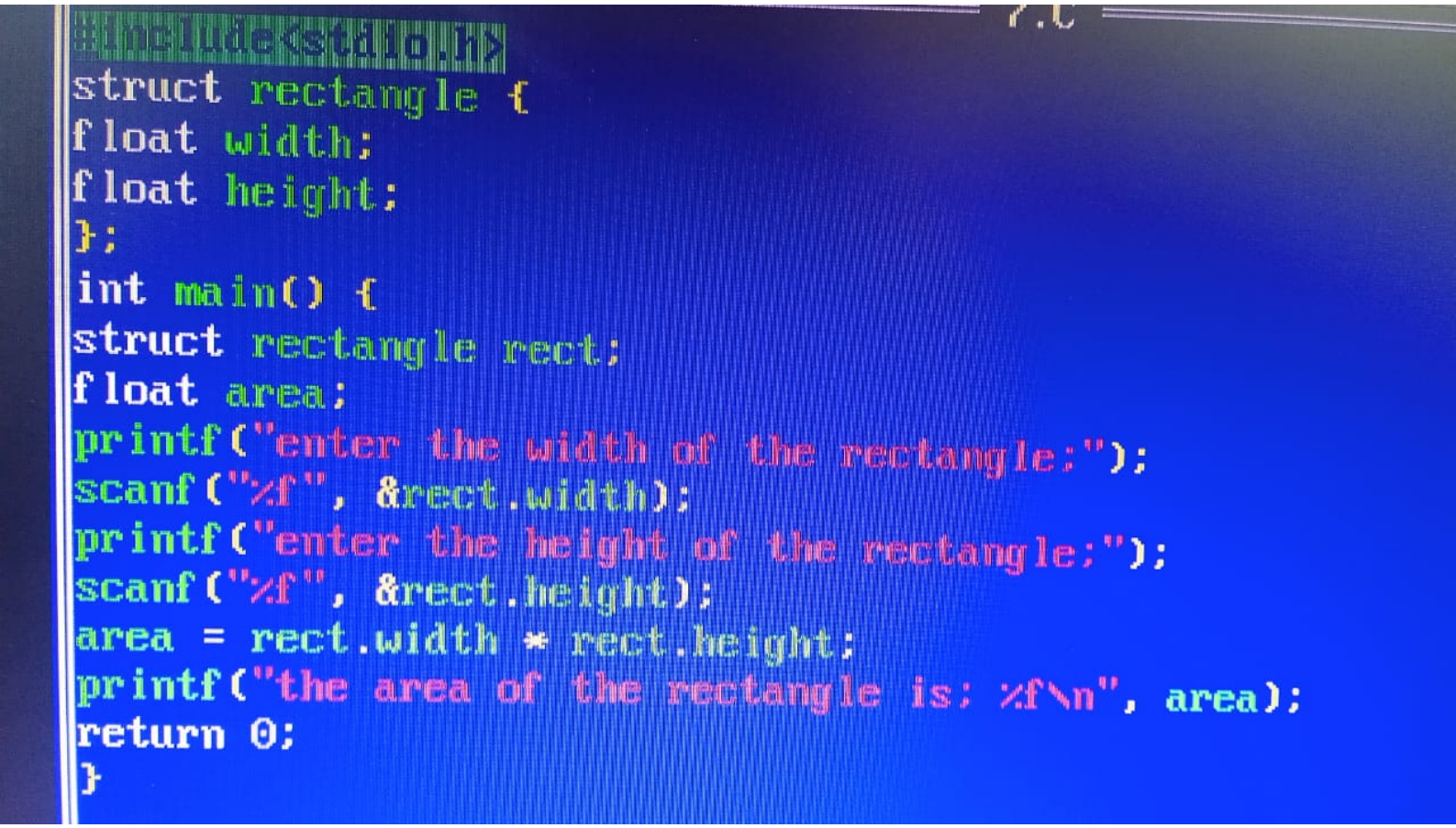
```
Enter marks: 90
For roll number5,
Enter first name: vikas
Enter marks: 86
Displaying Information:


Roll number: 1
First name: visva
Marks: 100.0

Roll number: 2
First name: vishnu
Marks: 90.0

Roll number: 3
First name: vicky
Marks: 98.0

Roll number: 4
First name: athish
Marks: 90.0

Roll number: 5
First name: vikas
Marks: 86.0
```


Enter a number:5
You entered an integer:5
Enter a number:6
You entered an integer:6
Enter a number:_

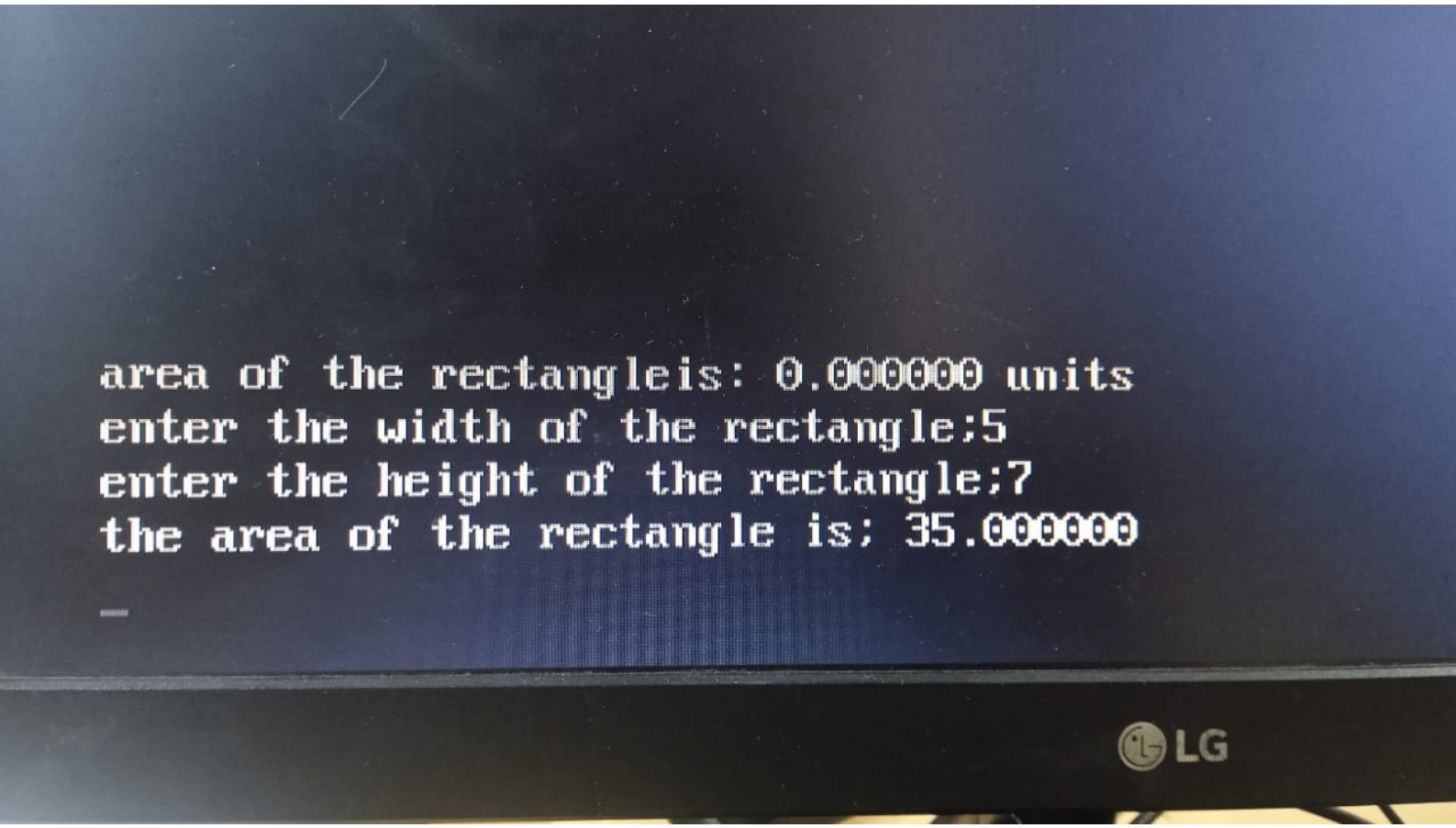

Programiz C++ Online Compiler
Interactive C++ Course
main.cpp
Run
Output
Clear
#include <stdio.h>
struct person {
char name;
int age;
float height;
};
int main() {
struct person p;
printf("Enter name: ");
scanf("%s", p.name);
printf("Enter age:200 ");
scanf("%d", &p.age);
printf("Enter height:10 ");
scanf("%f", &p.height);
printf("Name: %s\n", p.name);
printf("Age: %d\n", p.age);
printf("Height: %.2f\n", p.height);
Enter name: raja
Enter age:200 Enter height:10 Name: (null)
Age: 0
Height: 0.00

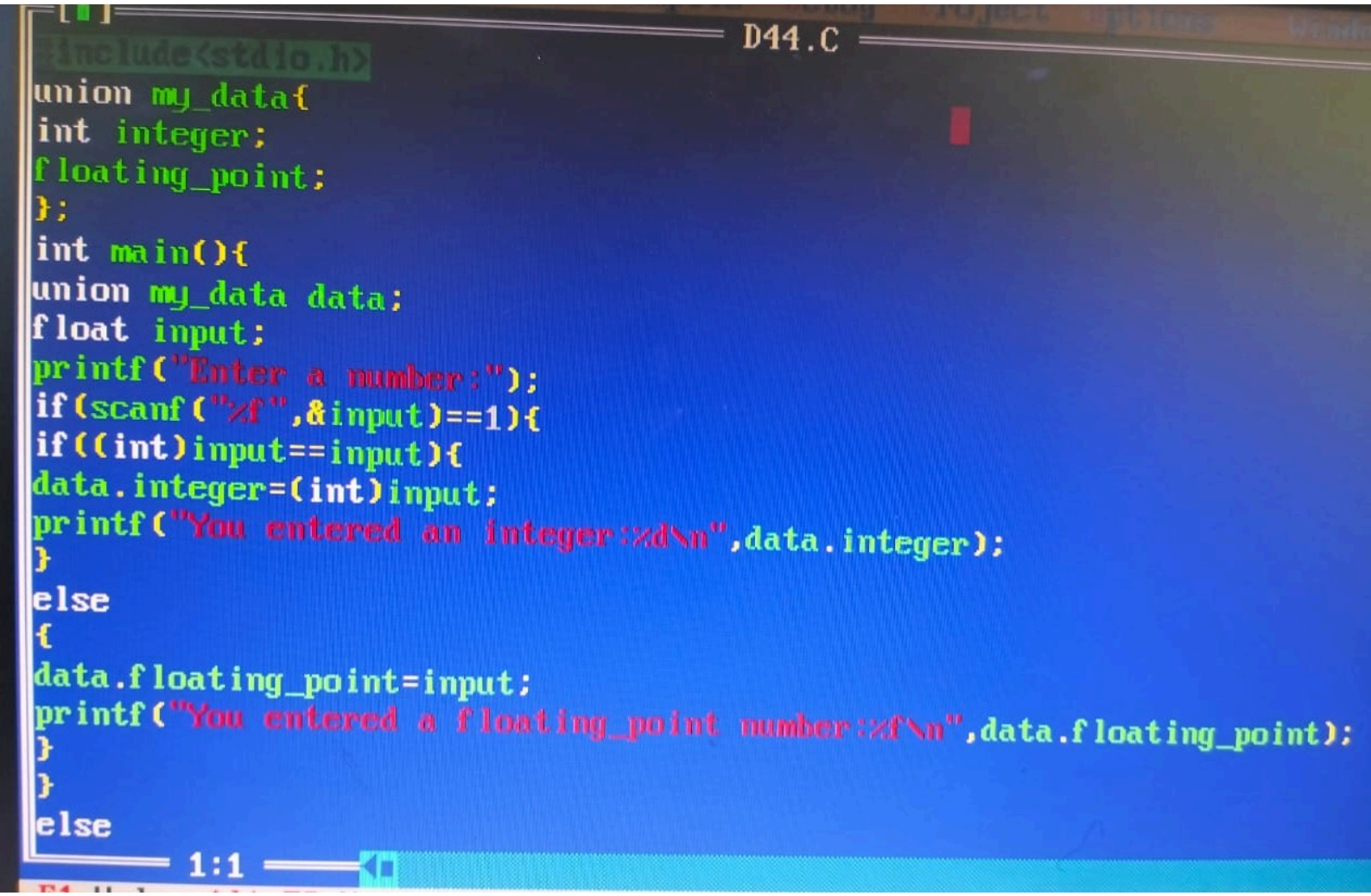

Run
Output
#include <stdio.h>
struct employee{
char name[30];
int empId;
float salary;
};
int main()
{
struct employee emp;
printf("\nEnter details :\n");
printf("Name ?:"); gets(emp.name);
printf("ID ?:"); scanf("%d",&emp.empId);
printf("Salary ?:"); scanf("%f",&emp.salary);
printf("\nEntered detail is:");
printf("Name: %s" ,emp.name);
printf("Id: %d" ,emp.empId);
printf("Salary: %f\n",emp.salary);
return 0;
}
/tmp/nzq2upCQMb.o
Enter details :
Name ?:vishnu
ID ?:192210390
Salary ?:1,00,000
Entered detail is:Name: vishnuId: 192210390Salary: 1.000000
Desktop
SE LAB
14:35
31/03/2023 14:35


#include<stdio.h>
#include<string.h>
#define SIZE 20
struct bookdetail
{
char name[20];
char author[20];
int pages;
float price;
};
void output(struct bookdetail v[],int n);
void main()
{
struct bookdetail b[SIZE];
int num,i;
printf("Enter the Numbers of Books:");
scanf("%d",&num);
printf("\n");
for(i=0;i<num;i++)
/tmp/xONOf1ZSg8.o
Enter the Numbers of Books:1
=:Book 1 Detail:=
Enter the Book Name:
vicky
Enter the Author of Book:
vishnu
Enter the Pages of Book:
12
Enter the Price of Book:
50
Book No.1
Book 1 Name is=vicky
Book 1 Author is=vishn
Book 1 Pages is=12
Book 1 Price is=50.000



```c
#include<stdio.h>
struct rectangle {
float width;
float height;
};
int main() {
struct rectangle rect;
float area;
printf("enter the width of the rectangle:");
scanf("%f", &rect.width);
printf("enter the height of the rectangle:");
scanf("%f", &rect.height);
area = rect.width * rect.height;
printf("the area of the rectangle is: %f\n", area);
return 0;
}
```


area of the rectangleis: 0.000000 units
enter the width of the rectangle;5
enter the height of the rectangle;7
the area of the rectangle is; 35.000000
LG


D44.C
#include<stdio.h>
union my_data{
int integer;
floating_point;
};
int main(){
union my_data data;
float input;
printf("Enter a number:");
if(scanf("%f",&input)==1){
if((int)input==input){
data.integer=(int)input;
printf("You entered an integer:%d\n",data.integer);
}
else
{
data.floating_point=input;
printf("You entered a floating_point number:%f\n",data.floating_point);
}
}
else
1:1

```c
#include <stdio.h>
union my_union
{
int integer;
float floating_point;
};
int main()
{
union my_union u;
u.integer = 42;
u.floating_point = 3.14;
printf("Value of integer field: %d\n", u.integer);
printf("Value of floating_point field: %f\n", u.floating_point);
return 0;
}

```

```
Value of integer field: 1078523331
Value of floating_point field: 3.140000
```

```c
#include <stdio.h>
union my_union
{
int integer;
float floating_point;
};
int main()
{
union my_union u;
u.integer = 42;
u.floating_point = 3.14;
printf("Value of integer field: %d\n", u.integer);
printf("Value of floating_point field: %f\n", u.floating_point);
return 0;
}

```

```
Value of integer field: 1078523331
Value of floating_point field: 3.140000
```