Institute of Computer Technology
B. Tech. Computer Science and Engineering

Sub: ESFP – I
Course Code: 2CSE102

Practical – 2

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Branch:BDA
Class: B
Batch:14

[Q-1] Problem Definition:

India is a country with moderate weather. So people here measure temperature in Celsius scale.America is a country with cold weather. So people there measure temperature in Fahrenheit scale.Some students of GNU are going for an international exposure visit to America. Since it is the first time for them, they find it very difficult to follow their temperature readings. Write a program to help them understand the American temperature readings easier, based on their Indian way of
understanding.

ALGORITHM:

Step 1: Start.

Step 2: Write the main method.

Step 3: Initialize variables - Fahrenheit and Celsius.

Step 4: Ask value from the user in Fahrenheit and display.

Step 5: Celsius=((Fahrenheit-32)*5/9.

Step 6: Print the temperature in the Indian System.

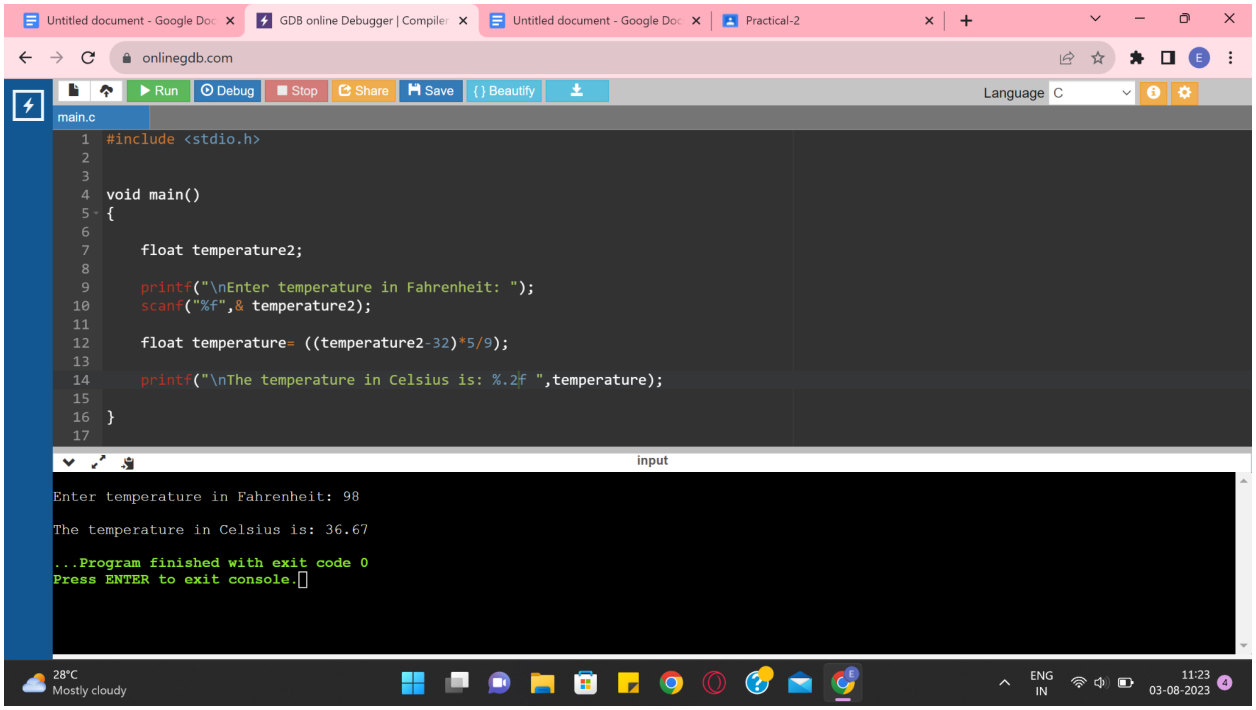
Step 7: return 0

Step 8: End.

Solution:

Code:-

```
#include <stdio.h>


void main()
{

    float temperature2;

    printf("\nEnter temperature in Fahrenheit: ");
    scanf("%f",& temperature2);

    float temperature= ((temperature2-32)*5/9);

    printf("\nThe temperature in Celsius is: %.0f ",temperature);

}
```



[Q-2] Problem Definition:

Once upon a time in a small town, there was a young and enthusiastic programmer named Alice. She loved solving problems and helping others with her coding skills. One day, the townspeople came to Alice with a request for a special program that could calculate the area of various mathematical objects - circles, rectangles, and triangles.

ALGORITHM:

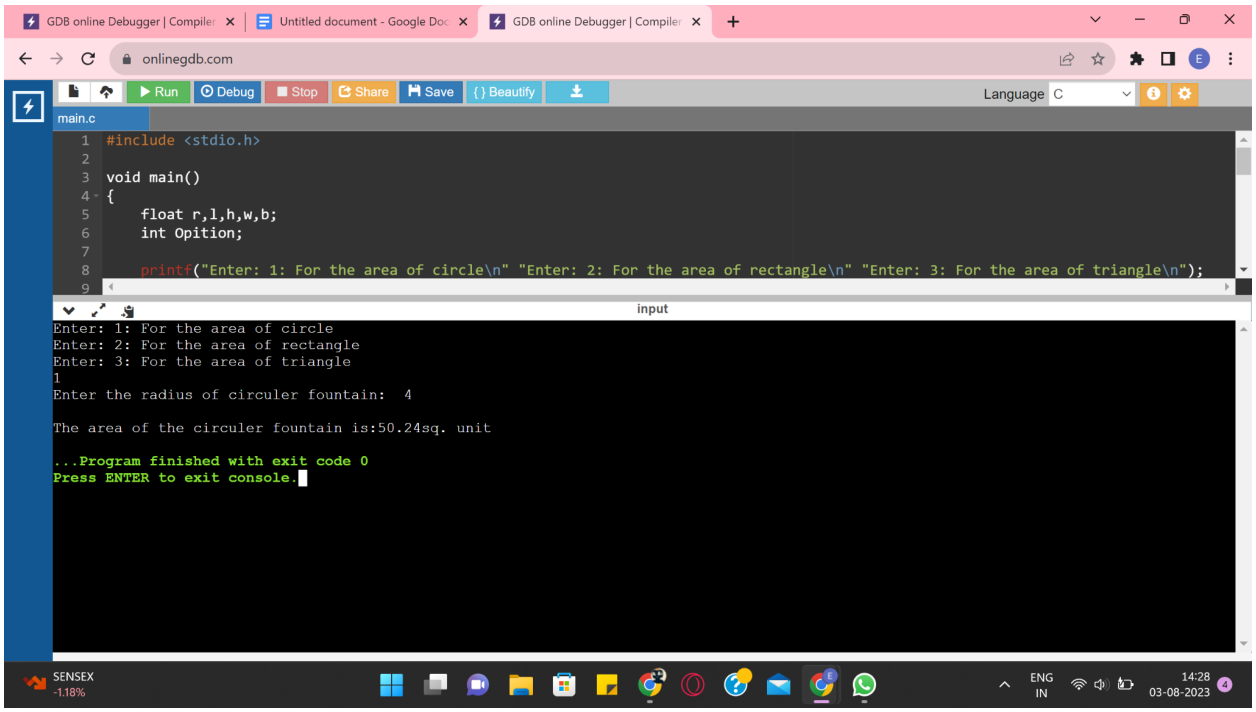
Step 1:- Start
Step 2:- Write the main mathod.
Step 3:- Ask about what area he/she requires.
Step 4:- Ask him/her about measurement of the following shape.
Step 5:- Answer the area of the following shape.
Step 6:- End.

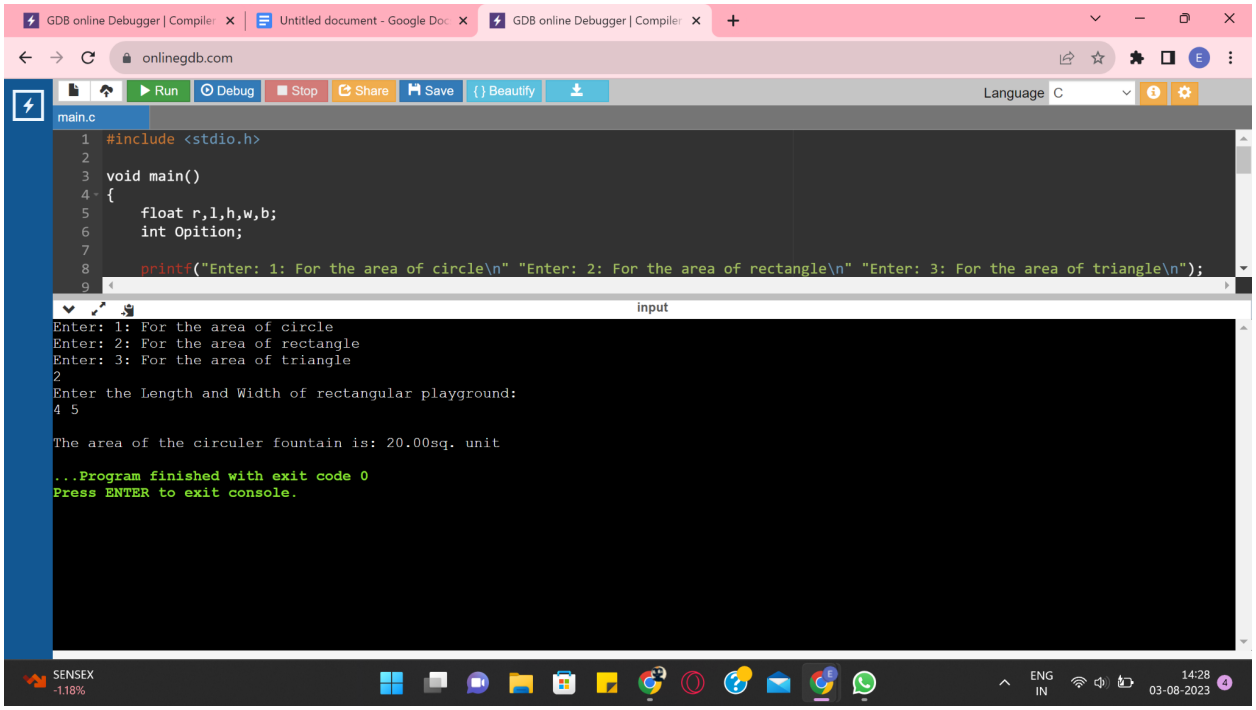
Solution:

Code:-

```
#include <stdio.h>

void main()
{
   float r,l,h,w,b;
   int Opition;

   printf("Enter: 1: For the area of circle\n" "Enter: 2: For the area of
rectangle\n" "Enter: 3: For the area of triangle\n");
    scanf("%d",&Opition);

   if(Opition==1)
   {
      printf("Enter the radius of circuler fountain:  \a");
       scanf("%f",&r);

      printf("\nThe area of the circuler fountain is:%.2fsq.
unit",3.14*r*r);
   }
   else if(Opition==2)
   {
      printf("Enter the Length and Width of rectangular
playground:\a\n");
       scanf("%f %f",&l,&w);

      printf("\nThe area of the circuler fountain is: %.2fsq. unit",l*w);
   }
   else if(Opition==3)
   {
```

```
        printf("Enter the Hight and Base of triangular garden:\a\n");
         scanf("%f %f",&b,&h);

        printf("\nThe area of the triangular garden is: %fsq.
unit",(1*b*h)/2);
    }
}
```

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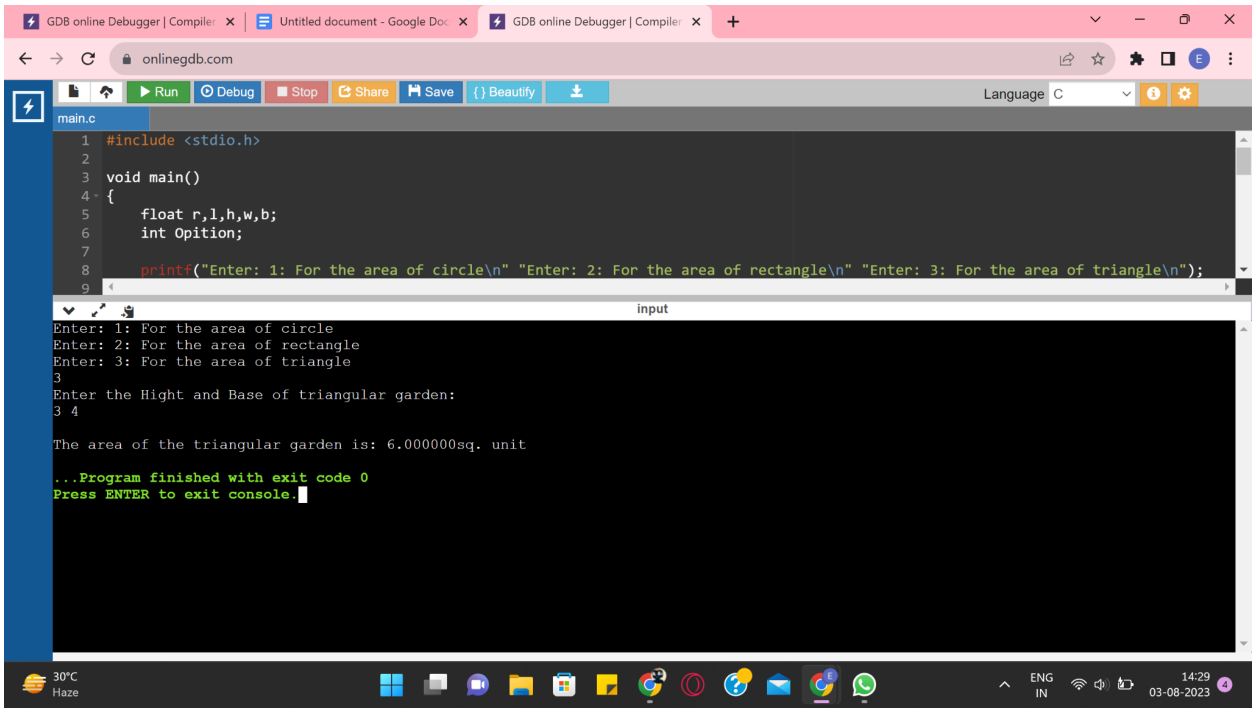
Language C
main.c
#include <stdio.h>
void main()
{
float r,l,h,w,b;
int Opition;
printf("Enter: 1: For the area of circle\n" "Enter: 2: For the area of rectangle\n" "Enter: 3: For the area of triangle\n");
input
Enter: 1: For the area of circle
Enter: 2: For the area of rectangle
Enter: 3: For the area of triangle
2
Enter the Length and Width of rectangular playground:
4 5
The area of the circuler fountain is: 20.00sq. unit
...Program finished with exit code 0
Press ENTER to exit console.
SENSEX
-1.18%
ENG
IN
14:28
03-08-2023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Save
{ } Beautify
Language C
main.c
#include <stdio.h>
void main()
{
float r,l,h,w,b;
int Opition;
printf("Enter: 1: For the area of circle\n" "Enter: 2: For the area of rectangle\n" "Enter: 3: For the area of triangle\n");
input
Enter: 1: For the area of circle
Enter: 2: For the area of rectangle
Enter: 3: For the area of triangle
3
Enter the Hight and Base of triangular garden:
3 4
The area of the triangular garden is: 6.000000sq. unit
...Program finished with exit code 0
Press ENTER to exit console.
30°C
Haze
ENG
IN
14:29
03-08-2023