ISLAMIC UNIVERSITY

Department of

INFORMATION & COMMUNICATION TECHNOLOGY

ISLAMIC UNIVERSITY,BANGLADESH

An Assignment on

"Conditional Statements"

Course Code: ICT-1203

Submitted To:

Dr. Md. Alamgir Hossain

Associate Professor

Department of Information & Communication Technology

Islamic University,Bangladesh

Submitted By:

Name: Md Tarek Mahmud

Roll No: **2018017**

Reg. No: **1292**

Session: 2020-2021

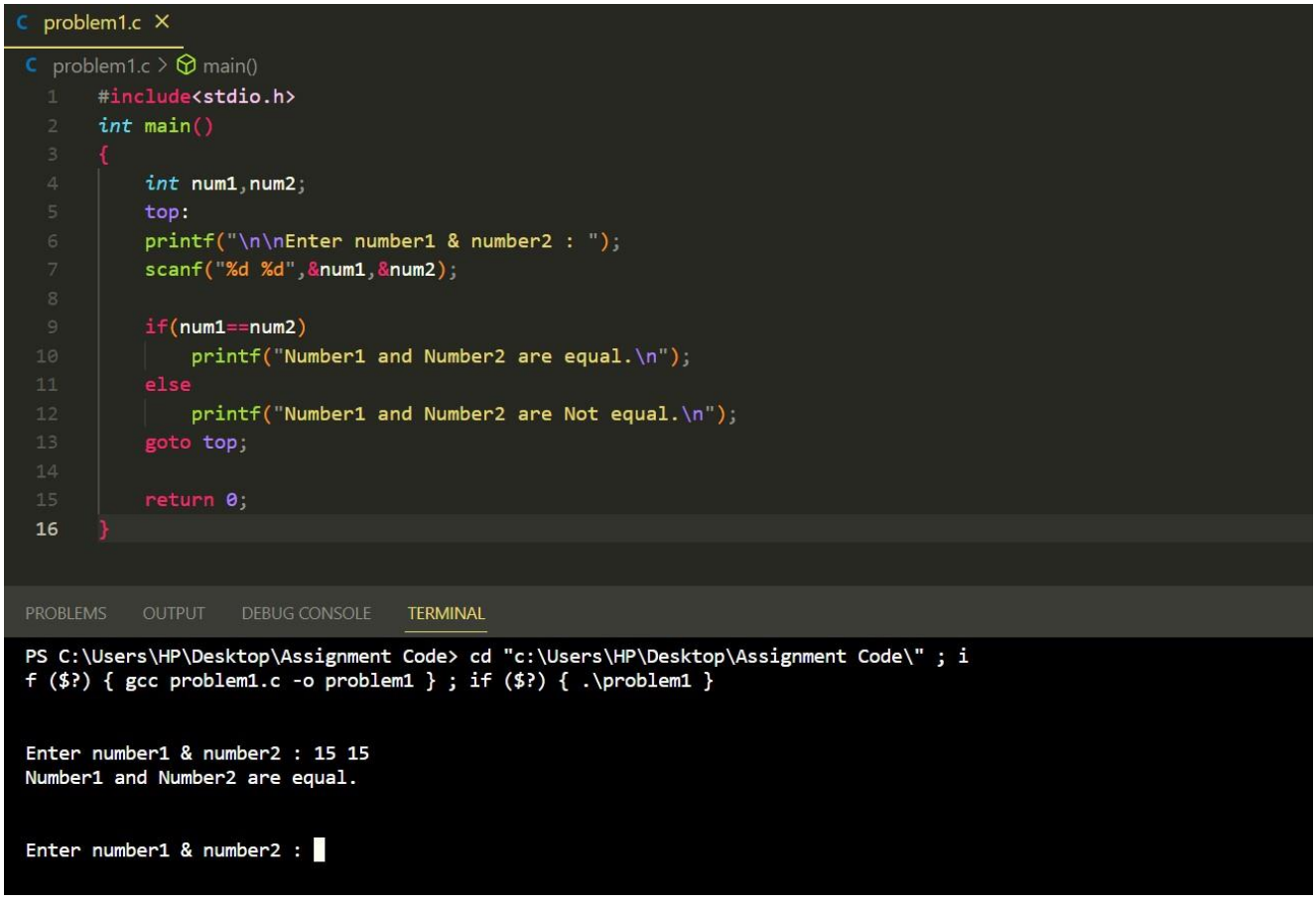
Problem 1: 1. Write a C program to accept two integers and check whether they are equal or not.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int num1,num2;
    top:
    printf("\n\nEnter number1 & number2 : ");
    scanf("%d %d",&num1,&num2);

    if(num1==num2)
        printf("Number1 and Number2 are equal.\n");
    else
        printf("Number1 and Number2 are Not equal.\n");
    goto top;

    return 0;
}
```

Output:



Problem 2: Write a C program to check whether a given number is even or odd.

Solution:

Code:

```c
#include<stdio.h>

int main()
{
    int num;
    top:
    printf("\n\nEnter any number : ");
    scanf("%d",&num);

     if(num%2==0)
        printf("%d is an even integer\n",num);
    else
        printf("%d is an odd integer\n",num);
    goto top;

    return 0;
}
```

Output:

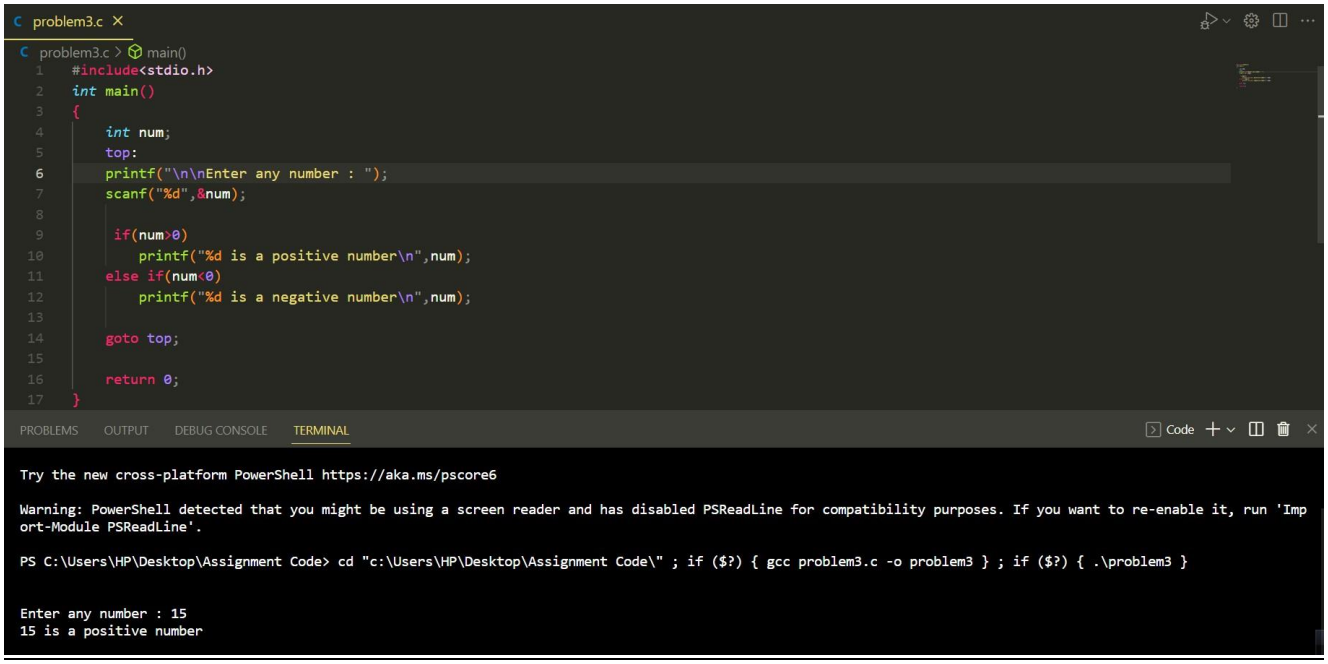
Problem 3: Write a C program to check whether a given number is positive or negative.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int num;
    top:
    printf("\n\nEnter any number : ");
    scanf("%d",&num);

     if(num>0)
        printf("%d is a positive number\n",num);
    else if(num<0)
        printf("%d is a negative number\n",num);

    goto top;

    return 0;
}
```

Output:



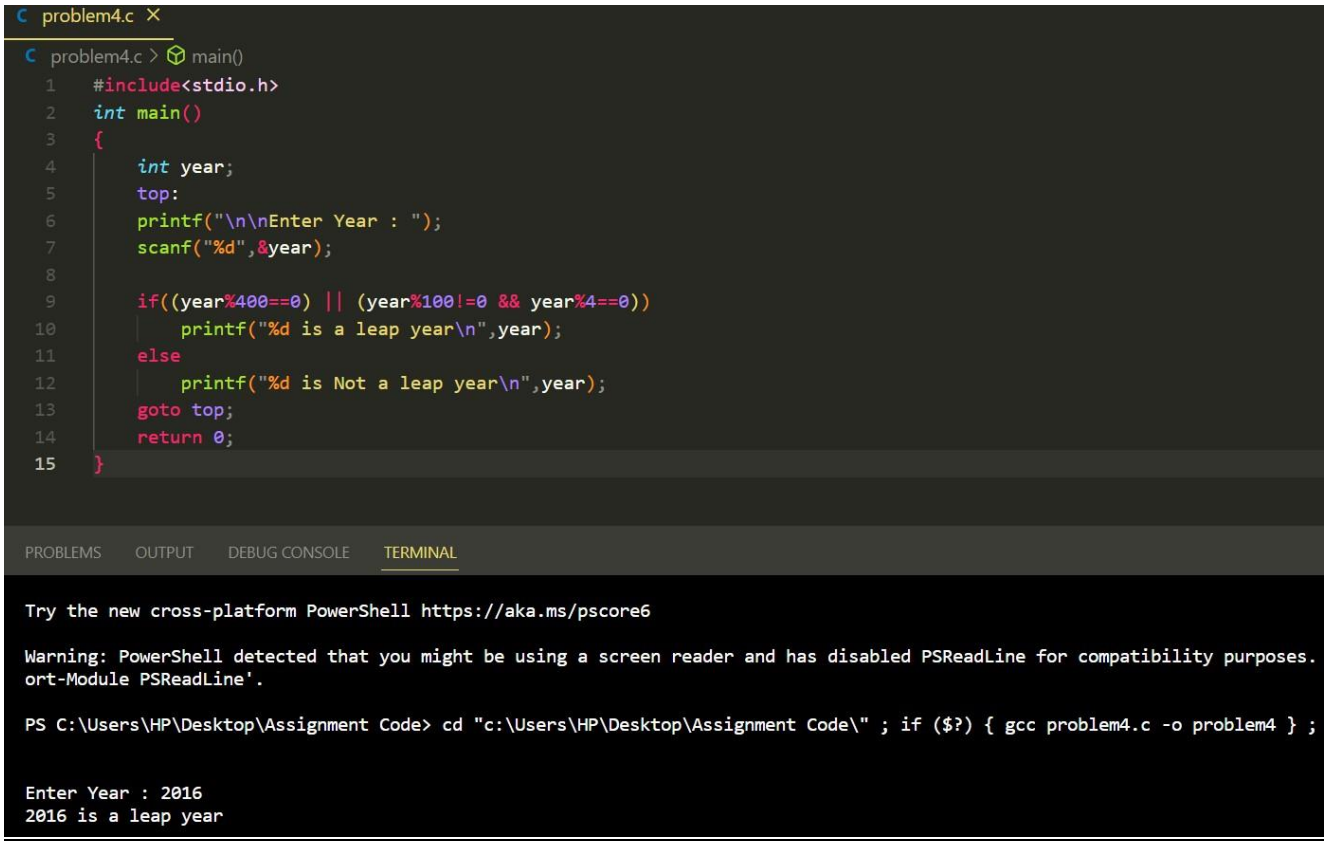
Problem 4: Write a C program to find whether a given year is a leap year or not.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int year;
    top:
    printf("\n\nEnter Year : ");
    scanf("%d",&year);

    if((year%400==0) || (year%100!=0 && year%4==0))
        printf("%d is a leap year\n",year);
    else
        printf("%d is Not a leap year\n",year);
    goto top;
    return 0;
}
```

Output:



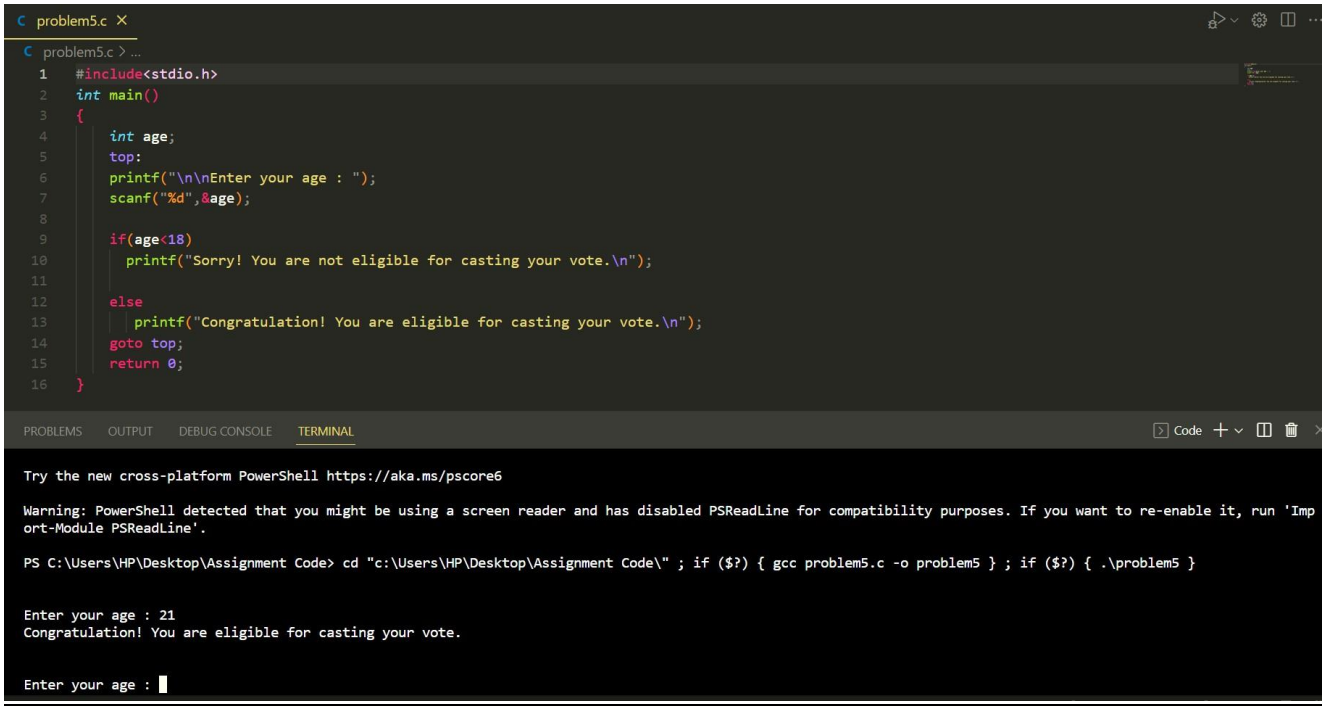
Problem 5: Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int age;
    top:
    printf("\n\nEnter your age : ");
    scanf("%d",&age);

    if(age<18)
      printf("Sorry! You are not eligible for casting your vote.\n");

    else
       printf("Congratulation! You are eligible for casting your vote.\n");
    goto top;
    return 0;
}
```

Output:



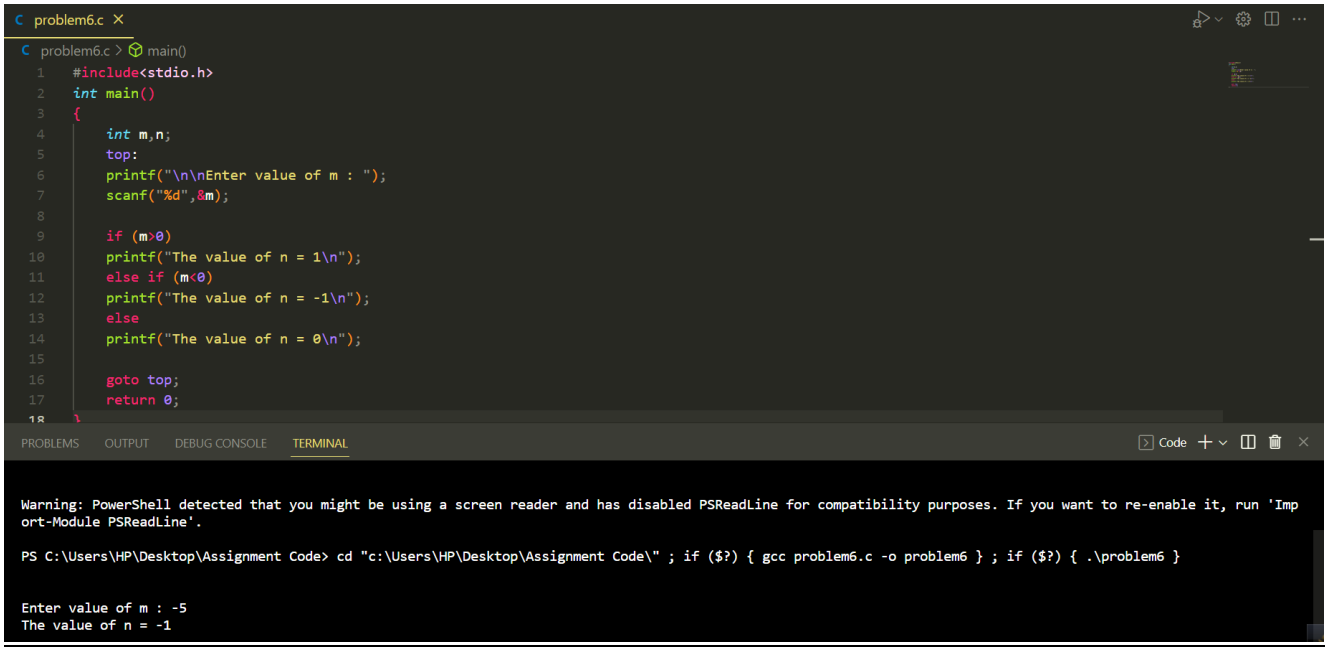
Problem 6: Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int m,n;
    top:
    printf("\n\nEnter value of m : ");
    scanf("%d",&m);

    if (m>0)
    printf("The value of n = 1\n");
    else if (m<0)
    printf("The value of n = -1\n");
    else
    printf("The value of n = 0\n");

    goto top;
    return 0;
}
```

Output:



Problem 7: Write a C program to accept the height of a person in centimeter and categorize the person according to their height.

Solution:

Code:

```c
/*7. Write a C program to accept the height of a person in centimeter and
 categorize the person according to their height.*/
 #include<stdio.h>
 int main()
 {
    int height;
    top:
    printf("\n\nEnter your height in centimeter : ");
    scanf("%d",&height);

    if(height<148)
        printf("The person is Dwarf.\n");
    else if(height >=148 && height<187)
        printf("The person is Normal(Average).\n");
    else if(height>=187)
        printf("The person is Tall.\n");
    goto top;
    return 0;
 }
```

Output:

Problem 8: 8. Write a C program to find the largest of three numbers.

Solution:

Code:

```c
// 8. Write a C program to find the largest of three numbers.
#include<stdio.h>
int main()
{
    int num1,num2,num3;
    top:
    printf("\n\nEnter three number : ");
    scanf("%d %d %d",&num1,&num2,&num3);

    if(num1>num2 && num1>num3)
    {
        printf("1st Number = %d,\t2nd Number = %d,\t3rd Number =
%d\n",num1,num2,num3);
        printf("The 1st Number is the greatest among three");
    }
    else if(num2>num1 && num2>num3)
    {
        printf("1st Number = %d,\t2nd Number = %d,\t3rd Number =
%d\n",num1,num2,num3);
        printf("The 2nd Number is the greatest among three");
    }
    else
    {
        printf("1st Number = %d,\t2nd Number = %d,\t3rd Number =
%d\n",num1,num2,num3);
        printf("The 3rd Number is the greatest among three");
    }

    goto top;
    return 0;
}
```

Output:

Problem 9: Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.

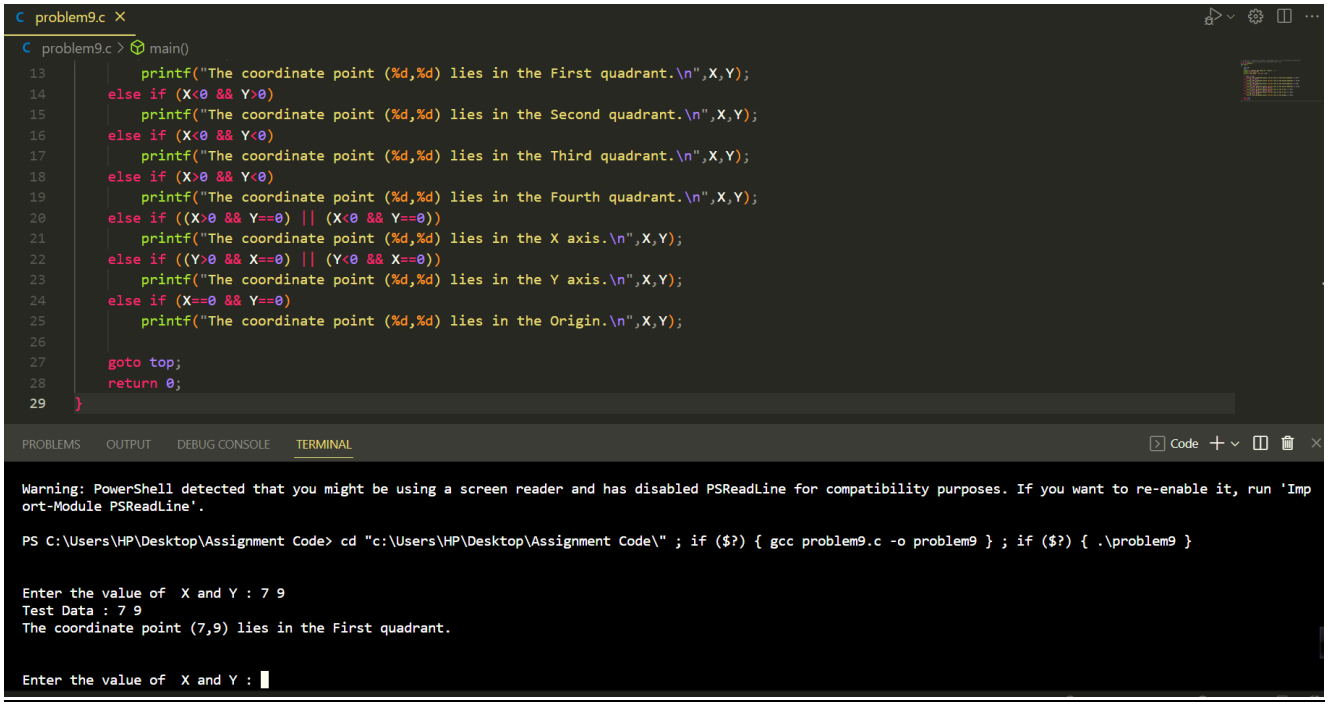
Solution:

Code:

```c
// 9. Write a C program to accept a coordinate point in a XY coordinate system and
// determine in which quadrant the coordinate point lies.
#include<stdio.h>
int main()
{
    int X,Y;
    top:
    printf("\n\nEnter the value of  X and Y : ");
    scanf("%d %d",&X,&Y);
    printf("Test Data : %d %d\n",X,Y);

    if (X>0 && Y>0)
        printf("The coordinate point (%d,%d) lies in the First quadrant.\n",X,Y);
    else if (X<0 && Y>0)
        printf("The coordinate point (%d,%d) lies in the Second quadrant.\n",X,Y);
```

```
    else if (X<0 && Y<0)
        printf("The coordinate point (%d,%d) lies in the Third quadrant.\n",X,Y);
    else if (X>0 && Y<0)
        printf("The coordinate point (%d,%d) lies in the Fourth quadrant.\n",X,Y);
    else if ((X>0 && Y==0) || (X<0 && Y==0))
        printf("The coordinate point (%d,%d) lies in the X axis.\n",X,Y);
    else if ((Y>0 && X==0) || (Y<0 && X==0))
        printf("The coordinate point (%d,%d) lies in the Y axis.\n",X,Y);
    else if (X==0 && Y==0)
        printf("The coordinate point (%d,%d) lies in the Origin.\n",X,Y);

    goto top;
    return 0;
}
```

Output:



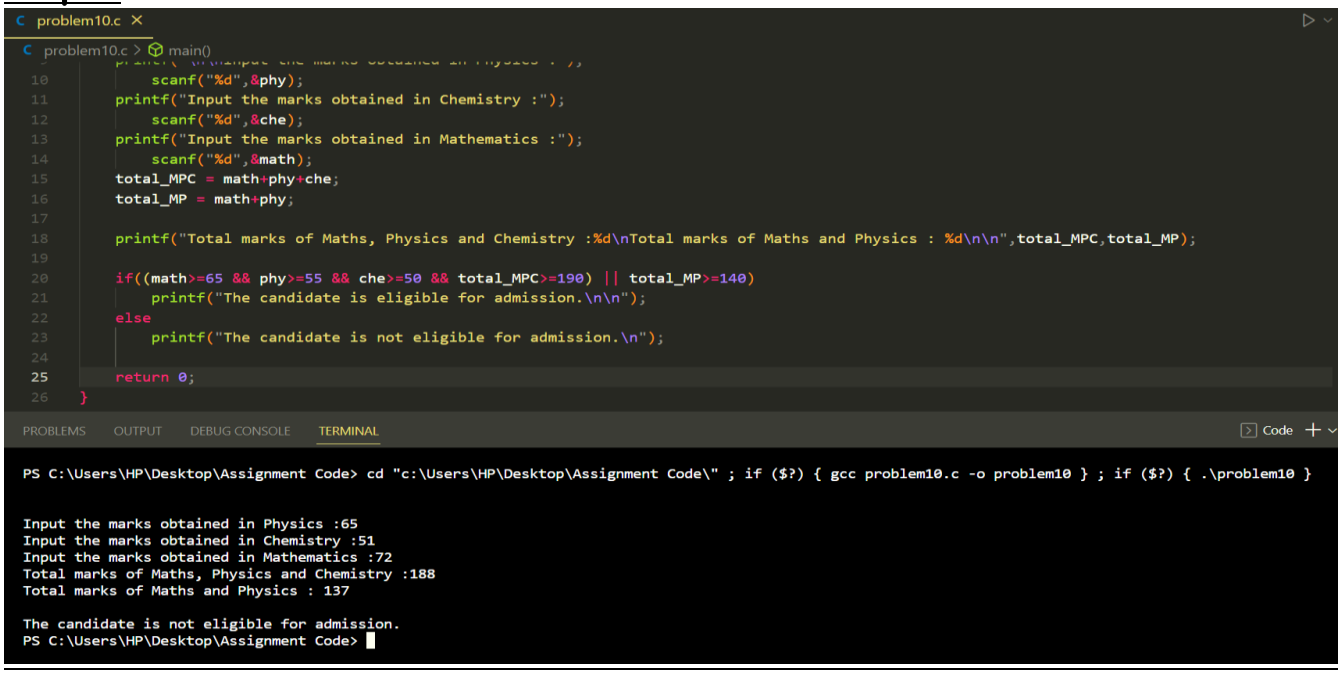
Problem 10: Write a C program to find the eligibility of admission for a professional course based on the following criteria: ------** Eligibility Criteria : Marks in Maths >=65 and Marks in Phy >=55 and Marks in Chem>=50 and Total in all three subject >=190 or Total in Maths and Physics >=140.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int math,phy,che;
    int total_MPC;  //MPC=math + phy + Chy
    int total_MP;   // MP = math + phy
    printf("\n\nInput the marks obtained in Physics :");
        scanf("%d",&phy);
    printf("Input the marks obtained in Chemistry :");
        scanf("%d",&che);
    printf("Input the marks obtained in Mathematics :");
        scanf("%d",&math);
    total_MPC = math+phy+che;
    total_MP = math+phy;

    printf("Total marks of Maths, Physics and Chemistry :%d\nTotal marks of Maths and
Physics : %d\n\n",total_MPC,total_MP);

    if((math>=65 && phy>=55 && che>=50 && total_MPC>=190) || total_MP>=140)
        printf("The candidate is eligible for admission.\n\n");
    else
        printf("The candidate is not eligible for admission.\n");

    return 0;
}
```

Output:



Problem 11: 11. Write a C program to calculate the root of a Quadratic Equation.

Solution:

Code:

```c
/*11. Write a C program to calculate the root of a Quadratic Equation.*/
#include<stdio.h>
#include<math.h>
int main()
{
    float a,b,c,D;
    top:
    printf("\n\nEnter values of a,b & c : ");
    scanf("%f %f %f",&a,&b,&c);

    D=pow(b,2)-4*a*c;
    if(D>0)
        printf("Root are Real.\n");
    else if(D<0)
        printf("Root are Imaginary.\n");
    else if(D==0)
        printf("Root are Equal.\n");
```

```
    goto top;
    return 0;
}
```

Output:

Problem 12: . Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division.

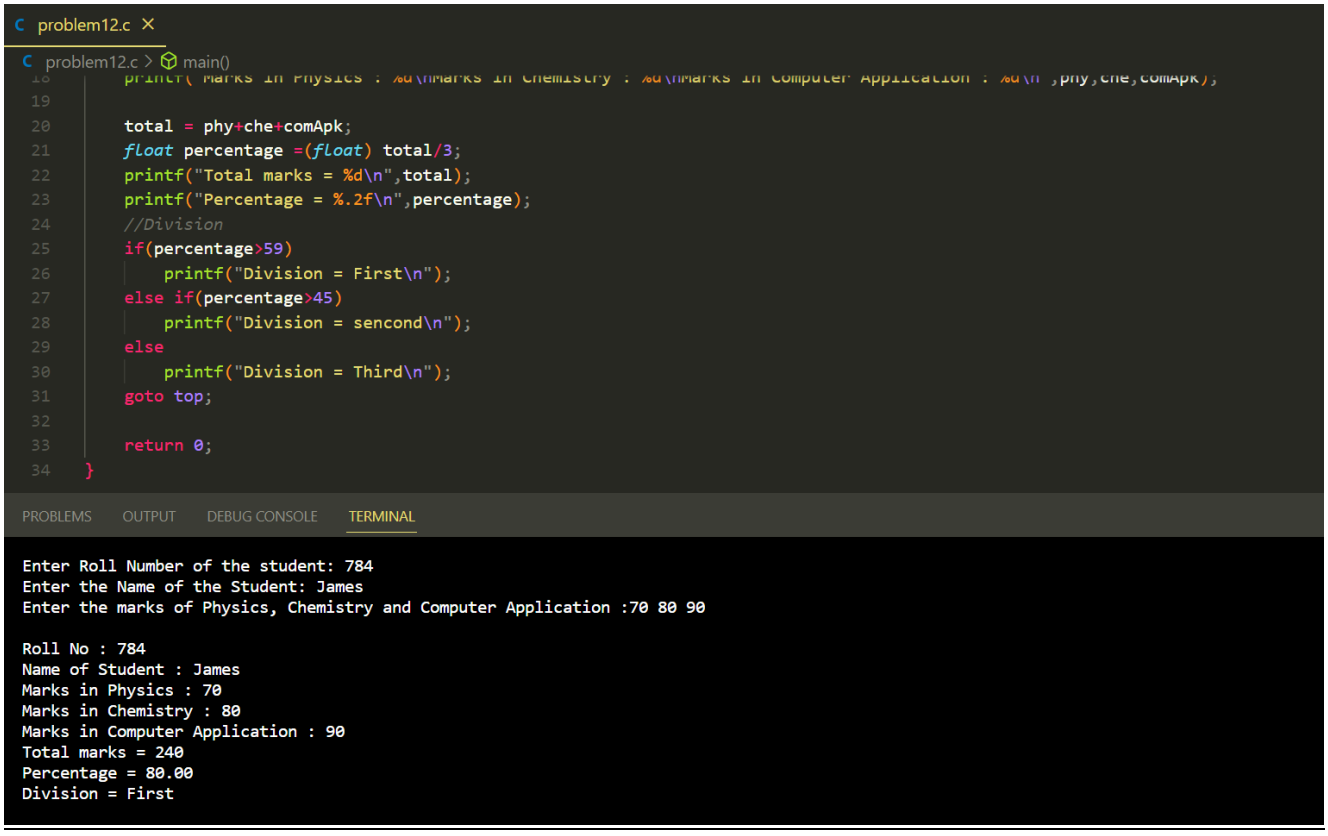
Solution:

Code:

```
#include<stdio.h>
int main()
{
    int roll;
    char name[60];
    int phy,che,comApk,total;
    top:

    printf("\n\nEnter Roll Number of the student: ");
    scanf("%d",&roll);
    printf("Enter the Name of the Student: ");
    scanf("%s",&name);
```

```
    printf("Enter the marks of Physics, Chemistry and Computer Application
:",phy,che,comApk);
    scanf("%d %d %d",&phy,&che,&comApk);

    printf("\nRoll No : %d\n",roll);
    printf("Name of Student : %s \n",name);
    printf("Marks in Physics : %d\nMarks in Chemistry : %d\nMarks in Computer
Application : %d\n",phy,che,comApk);

    total = phy+che+comApk;
    float percentage =(float) total/3;
    printf("Total marks = %d\n",total);
    printf("Percentage = %.2f\n",percentage);
    //Division
    if(percentage>59)
        printf("Division = First\n");
    else if(percentage>45)
        printf("Division = sencond\n");
    else
        printf("Division = Third\n");
    goto top;

    return 0;
}
```

Output:



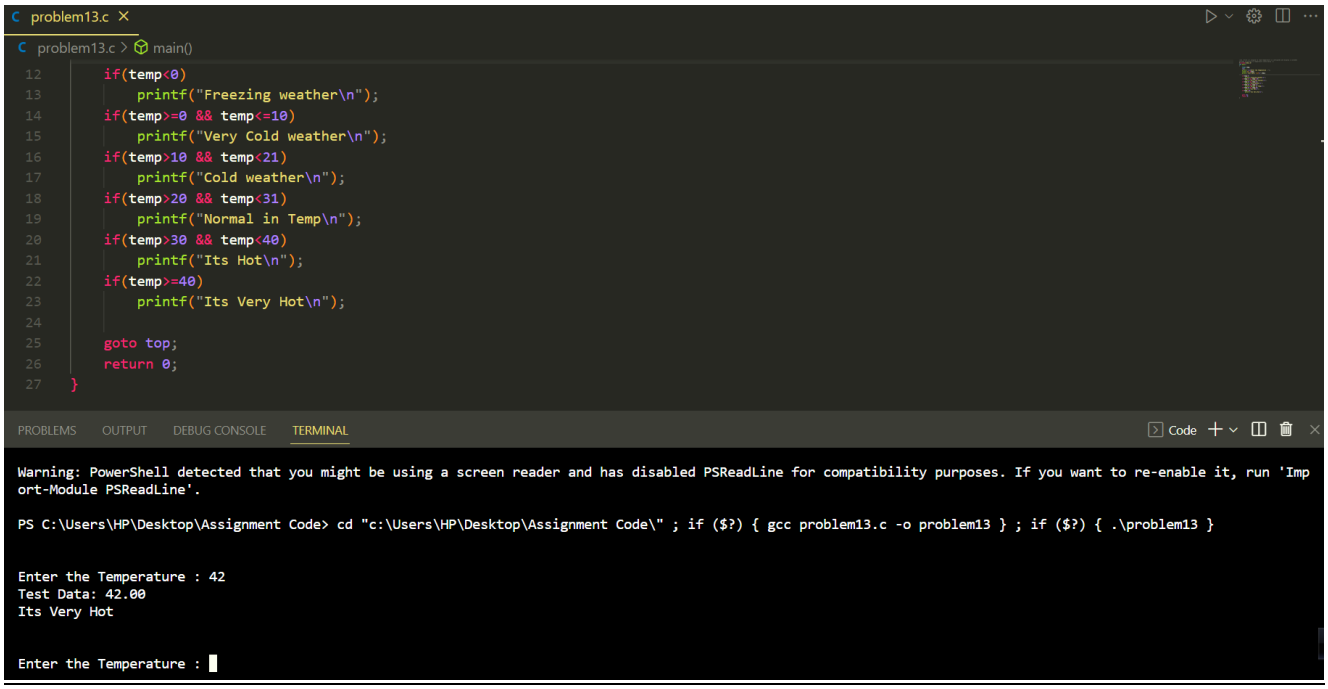
Problem 13: . Write a C program to read temperature in centigrade and display a suitable message according to temperature state below :

Solution:

Code:

```c
/*13. Write a C program to read temperature in centigrade and display a suitable
message according to temperature state below :*/
#include<stdio.h>
int main()
{
    float temp;
    top:
    printf("\n\nEnter the Temperature : ");
    scanf("%f",&temp);
    printf("Test Data: %.2f\n",temp);

    if(temp<0)
        printf("Freezing weather\n");
    if(temp>=0 && temp<=10)
        printf("Very Cold weather\n");
    if(temp>10 && temp<21)
        printf("Cold weather\n");
    if(temp>20 && temp<31)
        printf("Normal in Temp\n");
    if(temp>30 && temp<40)
        printf("Its Hot\n");
    if(temp>=40)
        printf("Its Very Hot\n");

    goto top;
    return 0;
}
```

Output:



Problem 14: Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int A,B,C;
    top:
    printf("\n\nEnter three sides of triangle : ");
    scanf("%d %d %d",&A,&B,&C);

    if(A==B && B==C && C==A)
        printf("This is an Equilateral triangle.");
    else if(A!=B && B!=C && C!=A)
        printf("This is an Scalene triangle.");
    if(((A==B) && (A!=C)) || ((C==B) && (A!=C)) || ((A==C) && (A!=B)))
        printf("This is an Isosceles triangle.\n");
        printf("\n");
    goto top;
    return 0;
}
```

Output:

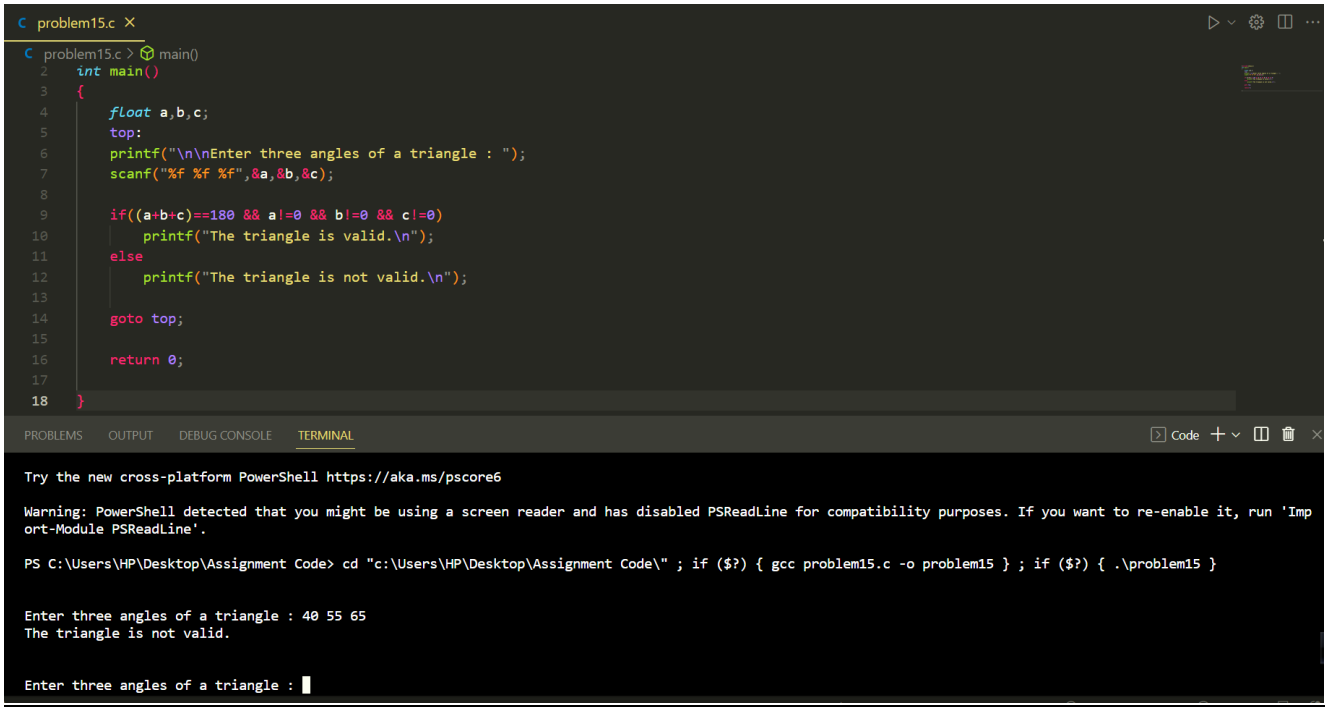
Problem 15: Write a C program to check whether a triangle can be formed by the given value for the angles.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    float a,b,c;
    top:
    printf("\n\nEnter three angles of a triangle : ");
    scanf("%f %f %f",&a,&b,&c);

    if((a+b+c)==180 && a!=0 && b!=0 && c!=0)
        printf("The triangle is valid.\n");
    else
        printf("The triangle is not valid.\n");

    goto top;

    return 0;

}
```

Output:



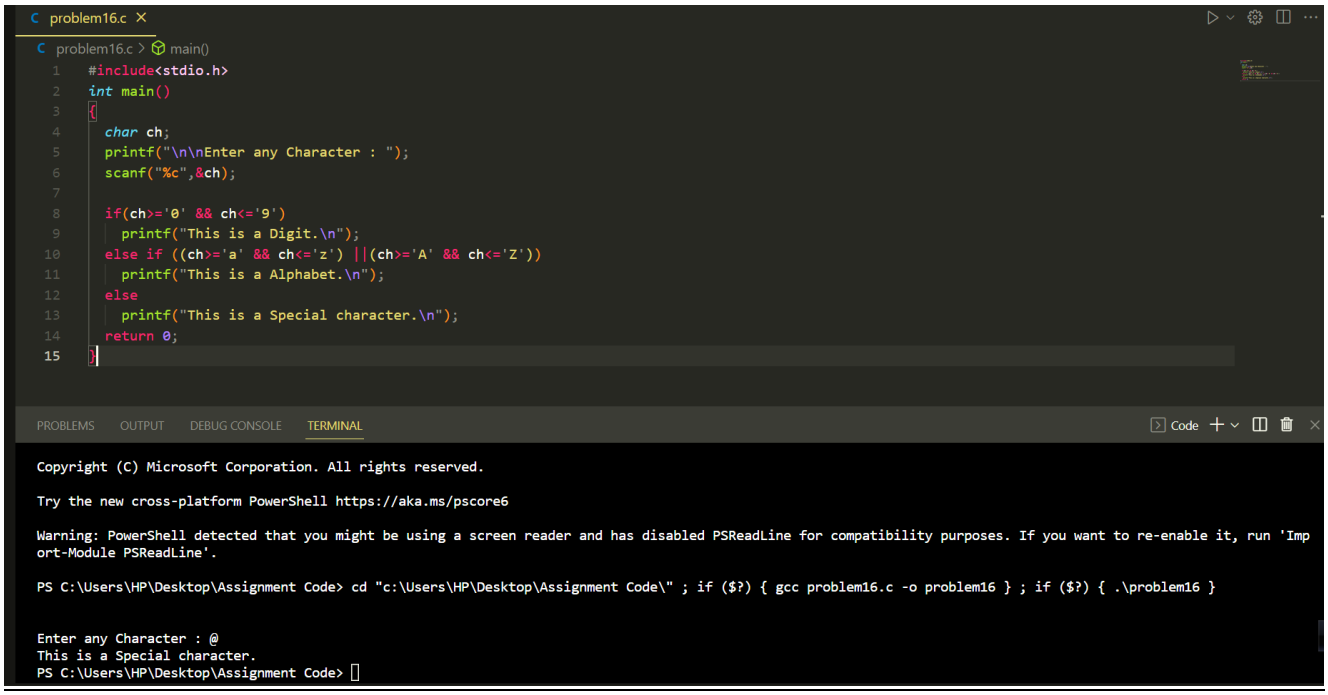
Problem 16: Write a C program to check whether a character is an alphabet, digit or special character.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
  char ch;
  printf("\n\nEnter any Character : ");
  scanf("%c",&ch);

  if(ch>='0' && ch<='9')
    printf("This is a Digit.\n");
  else if ((ch>='a' && ch<='z') ||(ch>='A' && ch<='Z'))
    printf("This is a Alphabet.\n");
  else
    printf("This is a Special character.\n");
  return 0;
}
```

Output:



Problem 17: Write a C program to check whether an alphabet is a vowel or consonant.

Solution:

Code:

```
#include<stdio.h>
int main()
{
    char ch;
    printf("\n\nEnter any Alphabet : ");
    scanf("%c",&ch);

    if
(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=
='U')
    {
        printf("The alphabet is a Vowel.\n\n");
    }
    else
    {
        printf("The alphabet is a consonant.\n\n");
    }

    return 0;
}
```

Output:

Problem 18: Write a C program to calculate profit and loss on a transaction.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int selling_price,cost_price;
    top:
    printf("\n\nEnter your cost price & Selling price: ");
    scanf("%d %d",&cost_price,&selling_price);

    if(cost_price<selling_price)
    {
        printf("You can booked your profit amount : %d\n",selling_price-cost_price);

    }
    else if(cost_price>selling_price)
    {
        printf("You can get loss amount of : %d\n",cost_price-selling_price);
    }
    else
```

```
    {
        printf("No profit no loss.\n");
    }
    goto top;

    return 0;
}
```

Output:

Problem 19: Write a program in C to calculate and print the Electricity bill of a given customer. The customer id., name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer.

***

The charge are as follow :

Unit	Charge/unit
upto 199	@1.20
200 and above but less than 400	@1.50
400 and above but less than 600	@1.80
600 and above	@2.00

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

Solution:

Code:

```
#include<stdio.h>
int main()
{
    int id,unit_csm;
    char name[50];
    float charge_p_unit,pri_bill,surcharge,net_charge;
    top:
    printf("\nEnter your id,name & number of Unit consumed :\n");
    scanf("%d %s %d",&id,&name,&unit_csm);

    printf("Customer IDNO: %d\n",id);
    printf("Customer Name: %s\n",name);
    printf("Unit Consumed: %d\n",unit_csm);
//condition level -1
    if(unit_csm>=0 && unit_csm<200)
    {
       charge_p_unit =1.20;
       pri_bill =(float)unit_csm*charge_p_unit;
       printf("Amount Charges @Rs. %.2f per unit : %.2f\n",charge_p_unit,pri_bill);

       if(pri_bill>400.00)
            {
                surcharge = (pri_bill*15)/100;
                printf("Surcharge Amount : %.2f\n",surcharge);

            }
        else
            {
                printf("Surcharge Amount : 0.00\n");

            }

        net_charge = surcharge + pri_bill;
        if(net_charge>=1 && net_charge<101)
            {
```

```
                printf("Net Amount Paid By the Customer : 100(minimum charge.)\n");
            }
        else if(net_charge>100)
            {
                printf("Net Amount Paid By the Customer : %.2f\n",net_charge);
            }
    }
//condition level -1

    else if(unit_csm>=200 && unit_csm<400)
    {
        charge_p_unit=1.50;
        pri_bill =(float)unit_csm*charge_p_unit;

        printf("Amount Charges @Rs. %.2f per unit : %.2f\n",charge_p_unit,pri_bill);
        if(pri_bill>400.00)
            {
                surcharge = (pri_bill*15)/100;
                printf("Surcharge Amount : %.2f\n",surcharge);
            }
        else
            {
                printf("Surcharge Amount : 0.00\n");
            }

        net_charge = surcharge + pri_bill;
        if(net_charge>=1 && net_charge<101)
            {
                printf("Net Amount Paid By the Customer : 100(minimum charge.)\n");
            }
        else if(net_charge>100)
            {
                printf("Net Amount Paid By the Customer : %.2f\n",net_charge);
            }


    }
    //condition level -1
     else if(unit_csm>=400 && unit_csm<600)
    {
        charge_p_unit=1.80;
        pri_bill =(float)unit_csm*charge_p_unit;

        printf("Amount Charges @Rs. %.2f per unit : %.2f\n",charge_p_unit,pri_bill);
        if(pri_bill>400.00)
            {
                surcharge = (pri_bill*15)/100;
                printf("Surcharge Amount : %.2f\n",surcharge);
            }
        else
```

```
        {
            printf("Surcharge Amount : 0.00\n");
        }

        net_charge = surcharge + pri_bill;
        if(net_charge>=1 && net_charge<101)
            {
                printf("Net Amount Paid By the Customer : 100(minimum charge.)\n");
            }
        else if(net_charge>100)
            {
                printf("Net Amount Paid By the Customer : %.2f\n",net_charge);
            }
    }

     //condition level -1
     else if(unit_csm>=600)
    {
        charge_p_unit=2.00;
        pri_bill =(float)unit_csm*charge_p_unit;

        printf("Amount Charges @Rs. %.2f per unit : %.2f\n",charge_p_unit,pri_bill);
        if(pri_bill>400.00)
            {
                surcharge = (pri_bill*15)/100;
                printf("Surcharge Amount : %.2f\n",surcharge);
            }
        else
            {
                printf("Surcharge Amount : 0.00\n");
            }

        net_charge = surcharge + pri_bill;
        if(net_charge>=1 && net_charge<101)
            {
                printf("Net Amount Paid By the Customer : 100(minimum charge.)\n");
            }
        else if(net_charge>100)
            {
                printf("Net Amount Paid By the Customer : %.2f\n",net_charge);
            }
    }

    goto top;

    return 0;
}
```

Output:

problem19.c

```
117
118             net_charge = surcharge + pri_bill;
119             if(net_charge>=1 && net_charge<101)
120                 {
121                     printf("Net Amount Paid By the Customer : 100(minimum charge.)\n");
122                 }
123             else if(net_charge>100)
124                 {
125                     printf("Net Amount Paid By the Customer : %.2f\n",net_charge);
126                 }
127         }
128
129         goto top;
130
131         return 0;
132     }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Enter your id,name & number of Unit consumed :
1001
James
800
Customer IDNO: 1001
Customer Name: James
Unit Consumed: 800
Amount Charges @Rs. 2.00 per unit : 1600.00
Surcharge Amount : 240.00
Net Amount Paid By the Customer : 1840.00

Enter your id,name & number of Unit consumed :
```

Problem 20: Write a program in C to accept a grade and declare the equivalent description.

***

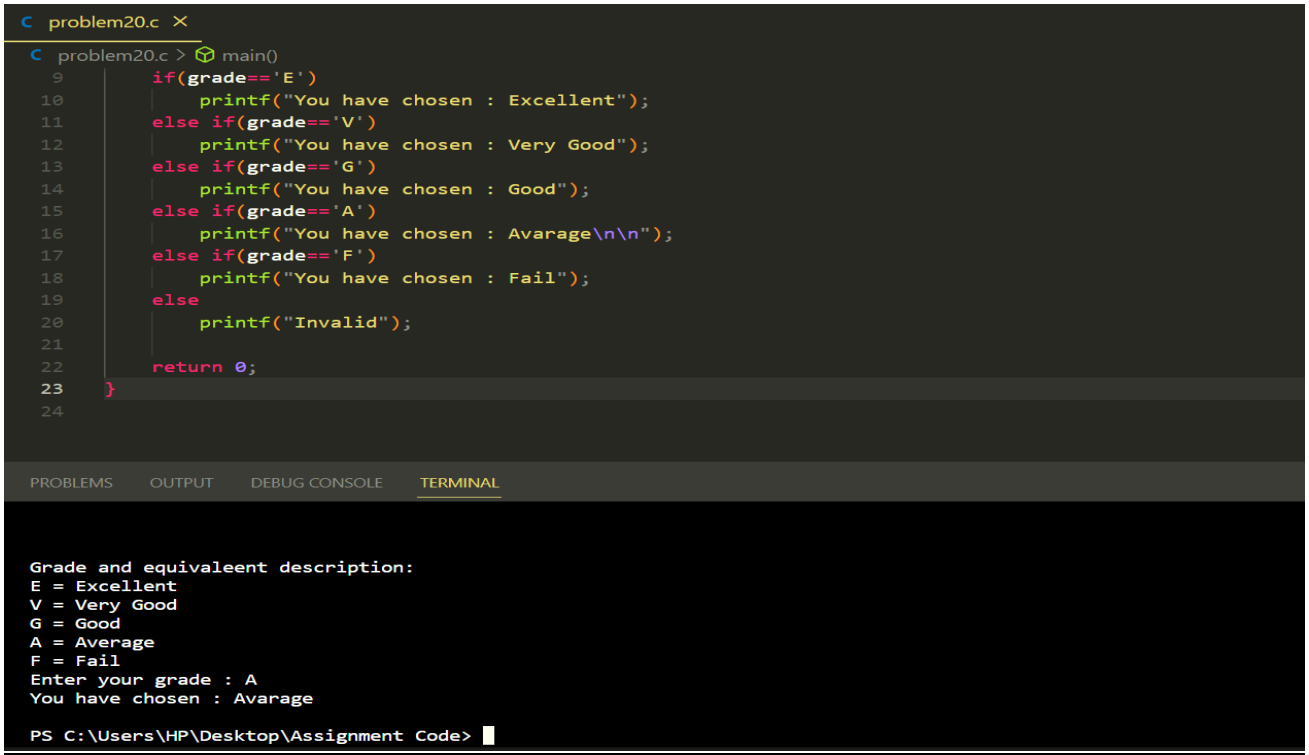
Grade	Description
E	Excellent
V	Very Good
G	Good
A	Average
F	Fail

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    char grade;
    printf("\n\nGrade and equivaleent description: \nE = Excellent\nV = Very Good\nG
= Good\nA = Average\nF = Fail\n");
    printf("Enter your grade : ");
    scanf("%c",&grade);

    if(grade=='E')
        printf("You have chosen : Excellent");
    else if(grade=='V')
        printf("You have chosen : Very Good");
    else if(grade=='G')
        printf("You have chosen : Good");
    else if(grade=='A')
        printf("You have chosen : Avarage\n\n");
    else if(grade=='F')
        printf("You have chosen : Fail");
    else
        printf("Invalid");

    return 0;
}
```

Output:



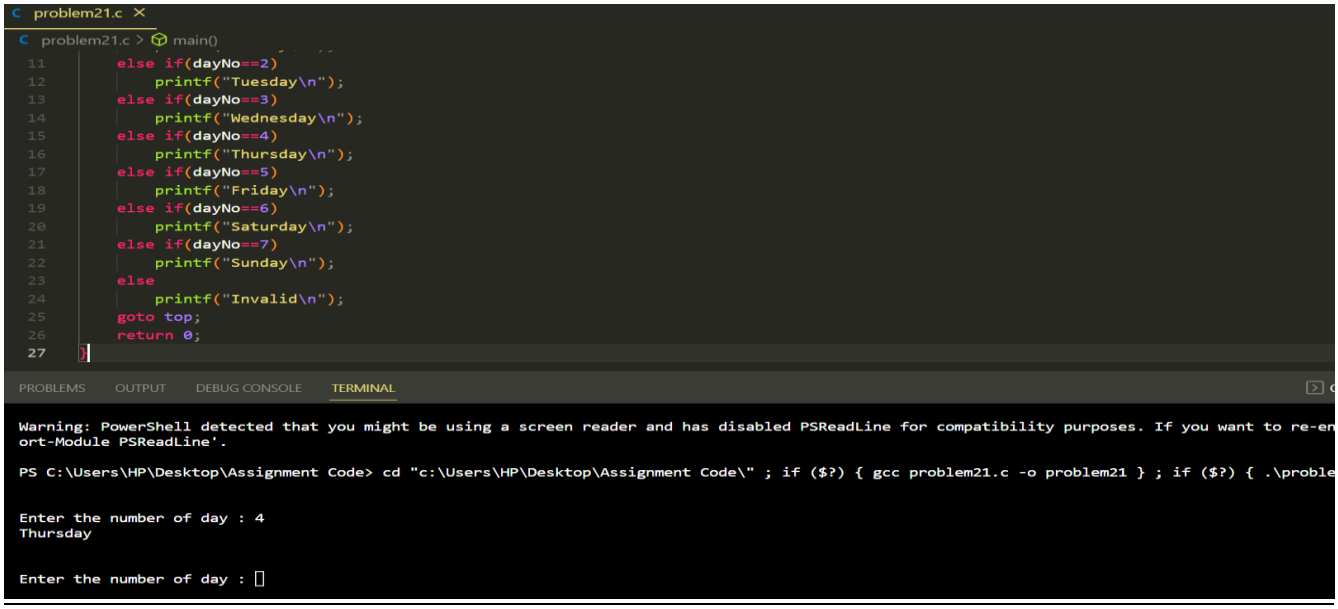
Problem 21: Write a program in C to read any day number in integer and display day name in the word.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int dayNo;
    top:
    printf("\n\nEnter the number of day : ");
    scanf("%d",&dayNo);

    if(dayNo==1)
        printf("Monday\n");
    else if(dayNo==2)
        printf("Tuesday\n");
    else if(dayNo==3)
        printf("Wednesday\n");
    else if(dayNo==4)
        printf("Thursday\n");
    else if(dayNo==5)
        printf("Friday\n");
    else if(dayNo==6)
        printf("Saturday\n");
    else if(dayNo==7)
        printf("Sunday\n");
    else
        printf("Invalid\n");
    goto top;
    return 0;
}
```

Output:



Problem 22: Write a program in C to read any digit, display in the word.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int digit;
    top:
    printf("\n\nEnter Digit : ");
    scanf("%d",&digit);

    if(digit==0)
        printf("Zero\n");
    else if(digit==1)
        printf("One\n");
    else if(digit==2)
        printf("Two\n");
    else if(digit==3)
        printf("Three\n");
    else if(digit==4)
        printf("Four\n");
    else if(digit==5)
```

```
        printf("Five\n");
    else if(digit==6)
        printf("Six\n");
    else if(digit==7)
        printf("Seven\n");
    else if(digit==8)
        printf("Eight\n");
    else if(digit==9)
        printf("Nine\n");
    else
        printf("Invalid\n");
    goto top;
    return 0;
}
```

Output:

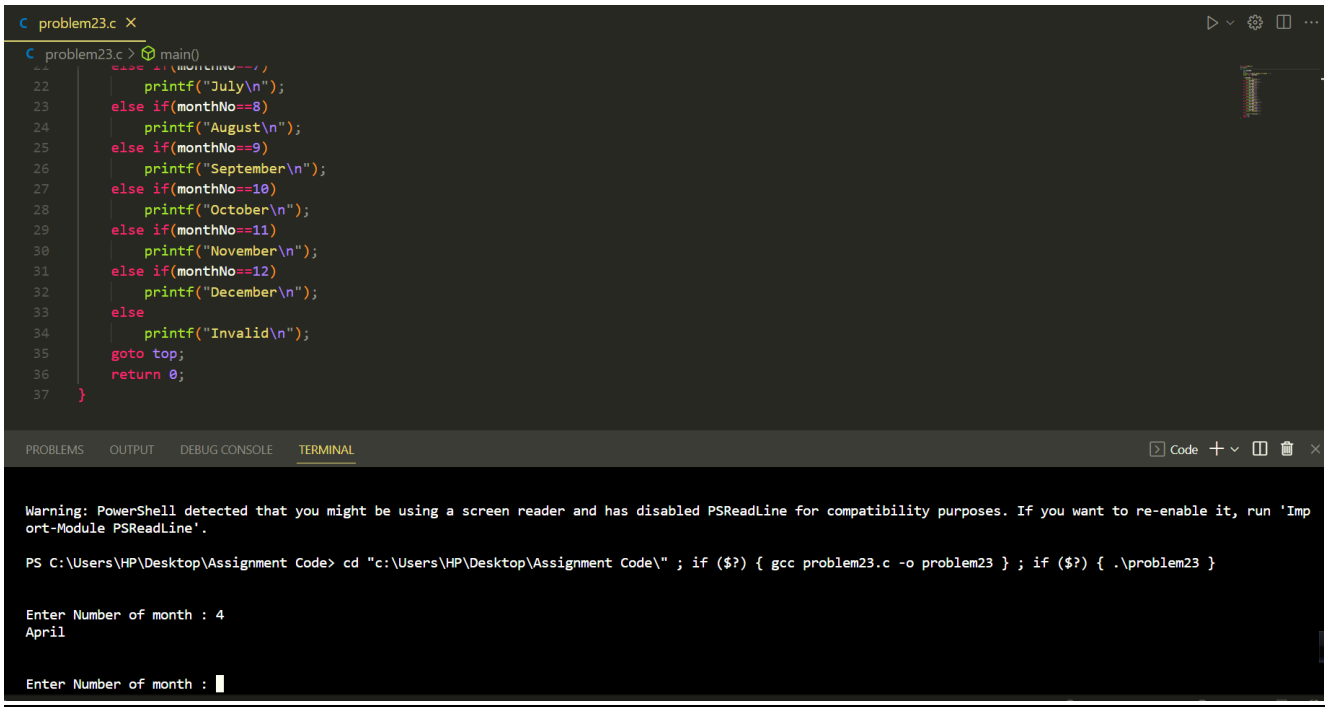
Problem 23: Write a program in C to read any Month Number in integer and display Month name in the word.

Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int monthNo;
    top:
    printf("\n\nEnter Number of month : ");
    scanf("%d",&monthNo);

    if(monthNo==1)
        printf("January\n");
    else if(monthNo==2)
        printf("February\n");
    else if(monthNo==3)
        printf("March\n");
    else if(monthNo==4)
        printf("April\n");
    else if(monthNo==5)
        printf("May\n");
    else if(monthNo==6)
        printf("June\n");
    else if(monthNo==7)
        printf("July\n");
    else if(monthNo==8)
        printf("August\n");
    else if(monthNo==9)
        printf("September\n");
    else if(monthNo==10)
        printf("October\n");
    else if(monthNo==11)
        printf("November\n");
    else if(monthNo==12)
        printf("December\n");
    else
        printf("Invalid\n");
    goto top;
    return 0;
}
```

Output:



Problem 24: Write a program in C to read any Month Number in integer and display the number of days for this month.

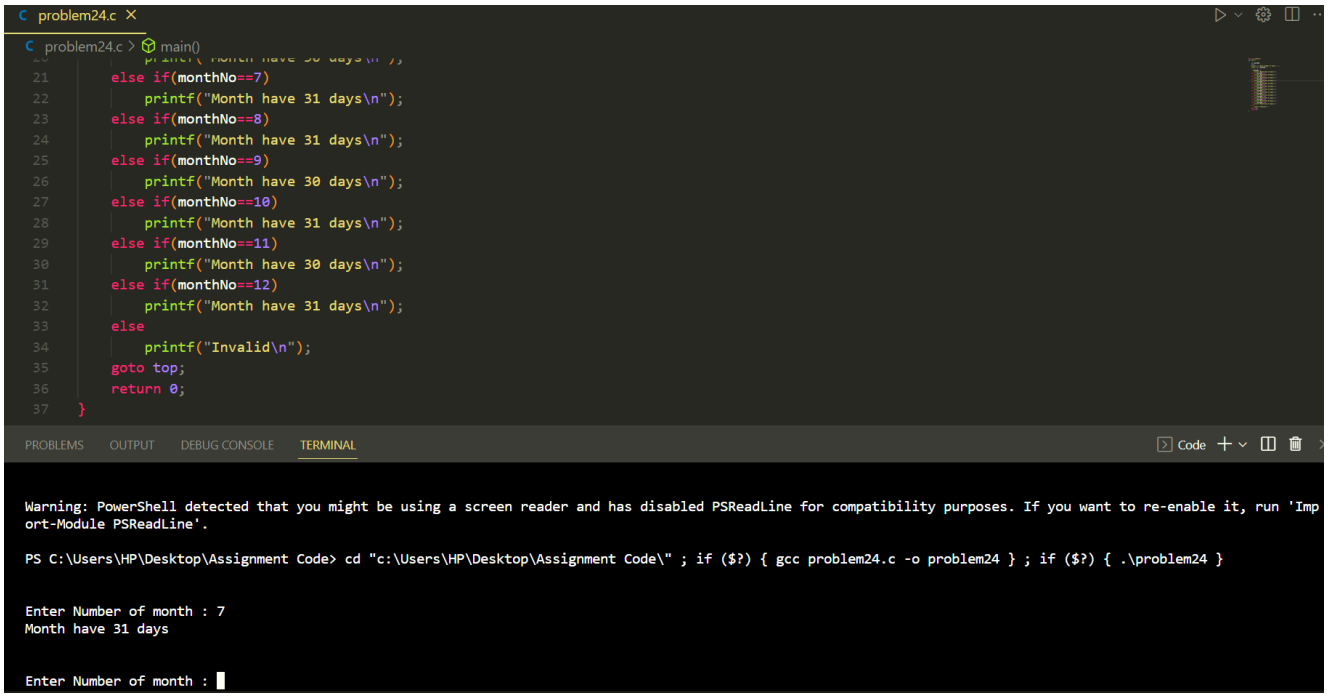
Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int monthNo;
    top:
    printf("\n\nEnter Number of month : ");
    scanf("%d",&monthNo);

    if(monthNo==1)
        printf("Month have 31 days\n");
    else if(monthNo==2)
        printf("Month have 28 days\n");
    else if(monthNo==3)
        printf("Month have 31 days\n");
    else if(monthNo==4)
        printf("Month have 30 days\n");
    else if(monthNo==5)
```

```
        printf("Month have 31 days\n");
    else if(monthNo==6)
        printf("Month have 30 days\n");
    else if(monthNo==7)
        printf("Month have 31 days\n");
    else if(monthNo==8)
        printf("Month have 31 days\n");
    else if(monthNo==9)
        printf("Month have 30 days\n");
    else if(monthNo==10)
        printf("Month have 31 days\n");
    else if(monthNo==11)
        printf("Month have 30 days\n");
    else if(monthNo==12)
        printf("Month have 31 days\n");
    else
        printf("Invalid\n");
    goto top;
    return 0;
}
```

Output:



Problem 25: Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape.

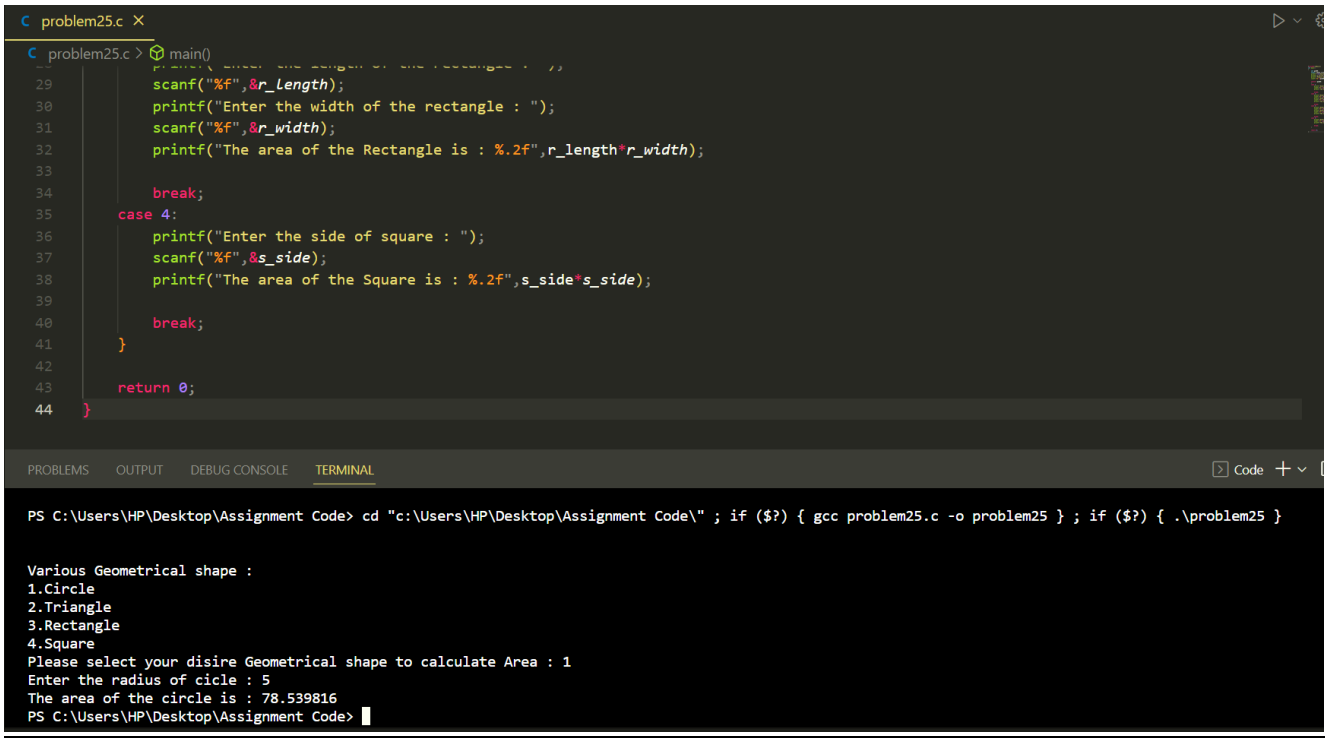
Solution:

Code:

```c
#include<stdio.h>
int main()
{
    int geoNO;
    float t_base,t_hight,c_radius,r_length,r_width,s_side;
    printf("\n\nVarious Geometrical shape : \n");
    printf("1.Circle\n2.Triangle\n3.Rectangle\n4.Square\n");
    printf("Please select your disire Geometrical shape to calculate Area : ");
    scanf("%d",&geoNO);

    switch (geoNO)
    {
    case 1:
        printf("Enter the radius of cicle : ");
        scanf("%f",&c_radius);
        printf("The area of the circle is : %.6f",3.1415926535*c_radius*c_radius);

        break;
    case 2:
        printf("Enter the base of the triangle : ");
        scanf("%f",&t_base);
        printf("Enter the hight of the triangle : ");
        scanf("%f",&t_hight);
        printf("The area of the triangle is : %.2f",.5*t_base*t_hight);

        break;
    case 3:
        printf("Enter the length of the rectangle : ");
        scanf("%f",&r_length);
        printf("Enter the width of the rectangle : ");
        scanf("%f",&r_width);
        printf("The area of the Rectangle is : %.2f",r_length*r_width);

        break;
    case 4:
        printf("Enter the side of square : ");
        scanf("%f",&s_side);
        printf("The area of the Square is : %.2f",s_side*s_side);
```

```
        break;
    }

    return 0;
}
```

Output:



Problem 26: Write a program in C which is a Menu-Driven Program to perform a simple calculation.

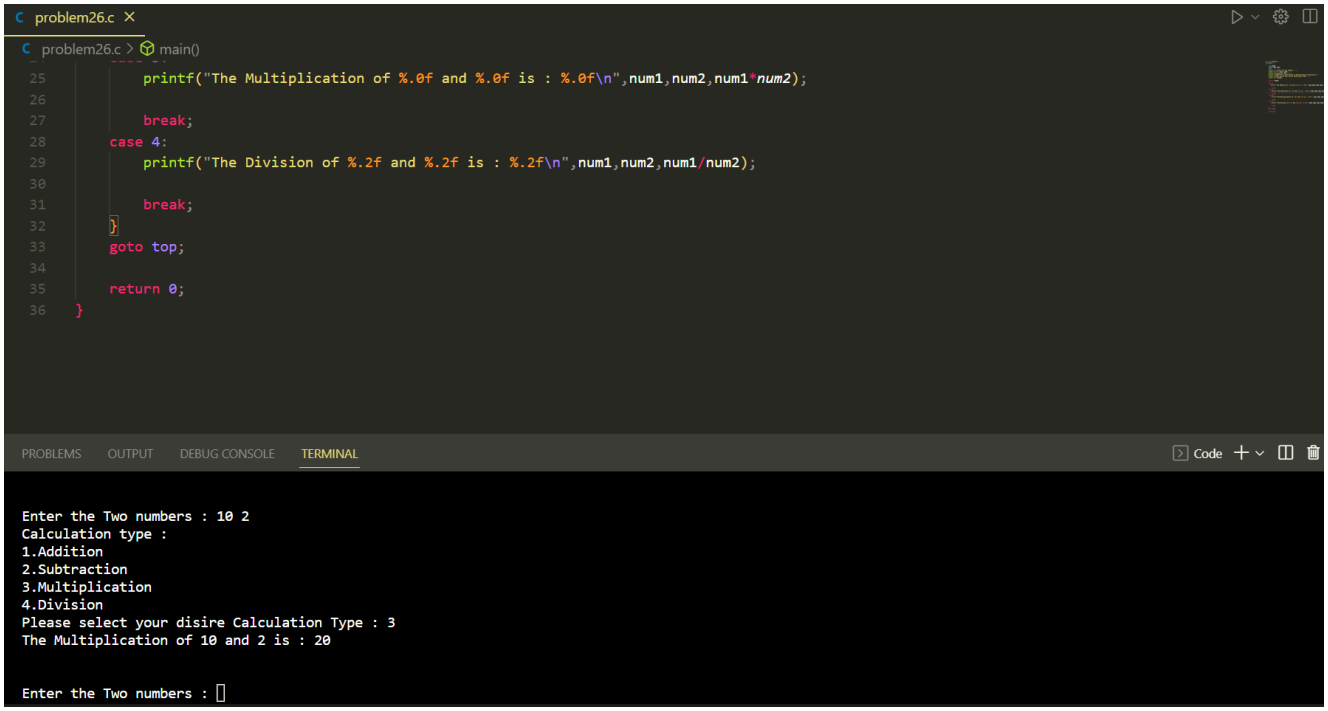
Solution:

Code:

```
#include<stdio.h>
int main()
{
    int calNo;
    float num1,num2;
    top:
    printf("\n\nEnter the Two numbers : ");
    scanf("%f %f",&num1,&num2);
    printf("Calculation type : \n");
    printf("1.Addition\n2.Subtraction\n3.Multiplication\n4.Division\n");
    printf("Please select your disire Calculation Type : ");
    scanf("%d",&calNo);
```

```c
    switch (calNo)
    {
    case 1:
       printf("The Addition of %.0f and %.0f is : %.0f\n",num1,num2,num1+num2);

        break;
    case 2:
        printf("The Subraction of %.0f and %.0f is : %.0f\n",num1,num2,num1-num2);

        break;
    case 3:
        printf("The Multiplication of %.0f and %.0f is :
%.0f\n",num1,num2,num1*num2);

        break;
    case 4:
        printf("The Division of %.2f and %.2f is : %.2f\n",num1,num2,num1/num2);

        break;
    }
    goto top;

    return 0;
}
```

Output:



Name: Md Tarek Mahmud

Roll No: 2018017

Registration No: 1292

Email: mahmud.tm2@gmail.com

Department of Information and Communication Technology,

Islamic University,

Kushtia-Jhenaidah,Bangladesh