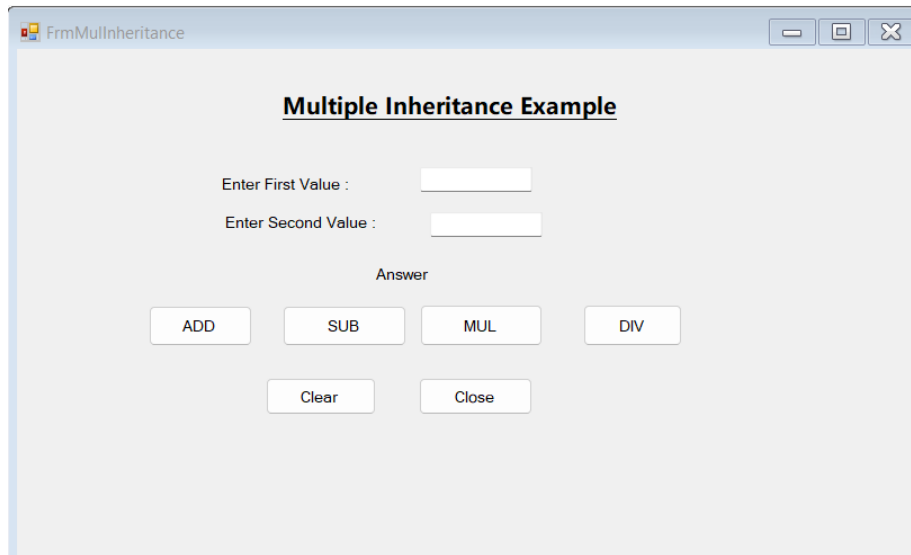


**Que.4.Design a Window application to demonstrate multiple inheritance.**

**Ans:**

- **Code:**  
**FrmMulInheritance.cs[Design]**



**FrmMulInheritance.cs**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace PracticalNo01
{
    public partial class FrmMulInheritance : Form
    {
        int a, b;
        Calculation cal = new Calculation();
        public FrmMulInheritance()
        {
            InitializeComponent();
        }

        private void label1_Click(object sender, EventArgs e)
        {

```

```

    }

    private void btnadd_Click(object sender, EventArgs e)
    {
        a = Convert.ToInt32(txtfirst.Text);
        b = Convert.ToInt32(txtsecond.Text);
        lblmsg.Text = "Addition= " + cal.add(a, b);
    }

    private void btnsub_Click(object sender, EventArgs e)
    {
        a = Convert.ToInt32(txtfirst.Text);
        b = Convert.ToInt32(txtsecond.Text);
        lblmsg.Text = "Subtraction= " + cal.sub(a, b);
    }

    private void btnmul_Click(object sender, EventArgs e)
    {
        a = Convert.ToInt32(txtfirst.Text);
        b = Convert.ToInt32(txtsecond.Text);
        lblmsg.Text = "Multiplication= " + cal.mul(a, b);
    }

    private void btndiv_Click(object sender, EventArgs e)
    {
        a = Convert.ToInt32(txtfirst.Text);
        b = Convert.ToInt32(txtsecond.Text);
        lblmsg.Text = "Division= " + cal.div(a, b);
    }

    private void btnclear_Click(object sender, EventArgs e)
    {
        txtfirst.Clear();
        txtsecond.Clear();
    }

    private void btnclose_Click(object sender, EventArgs e)
    {
        this.Close();
    }

    private void FrmMulInheritance_Load(object sender, EventArgs e)
    {
    }
}
interface calc1
{
    int add(int a, int b);
}
interface calc2
{
    int sub(int x, int y);
}
interface calc3

```

```

    {
        int mul(int r, int s);
    }
    interface calc4
    {
        int div(int c, int d);
    }
    class Calculation : calc1, calc2, calc3, calc4
    {
        public int add(int a, int b)
        {
            return a + b;
        }

        public int div(int a, int b)
        {
            return a / b;
        }

        public int mul(int a, int b)
        {
            return a * b;
        }

        public int sub(int a, int b)
        {
            return a - b;
        }
    }
}

```

### **Program.cs**

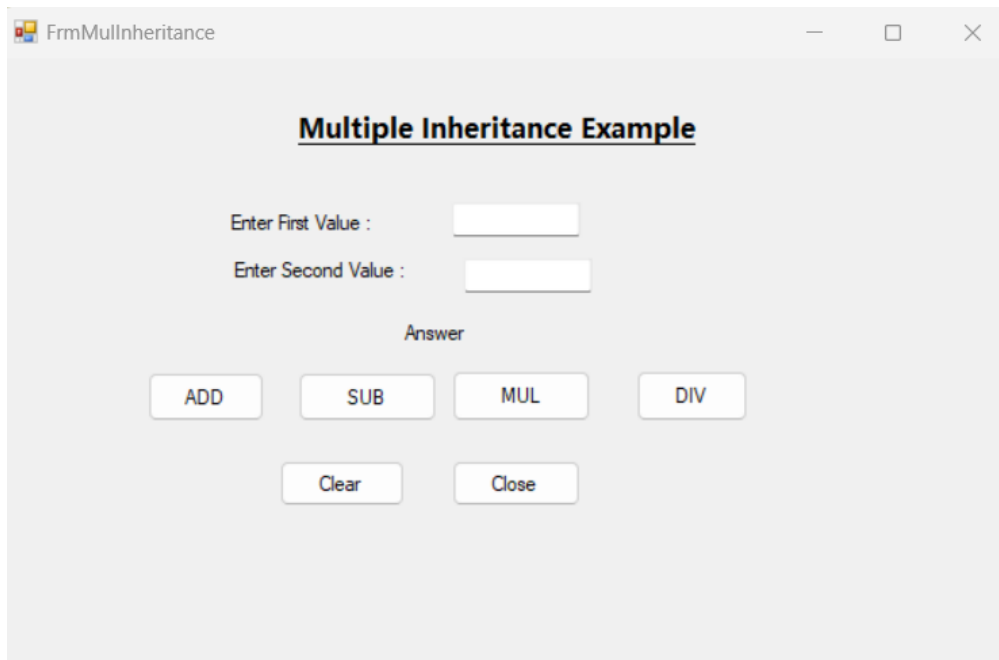
```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Windows.Forms;

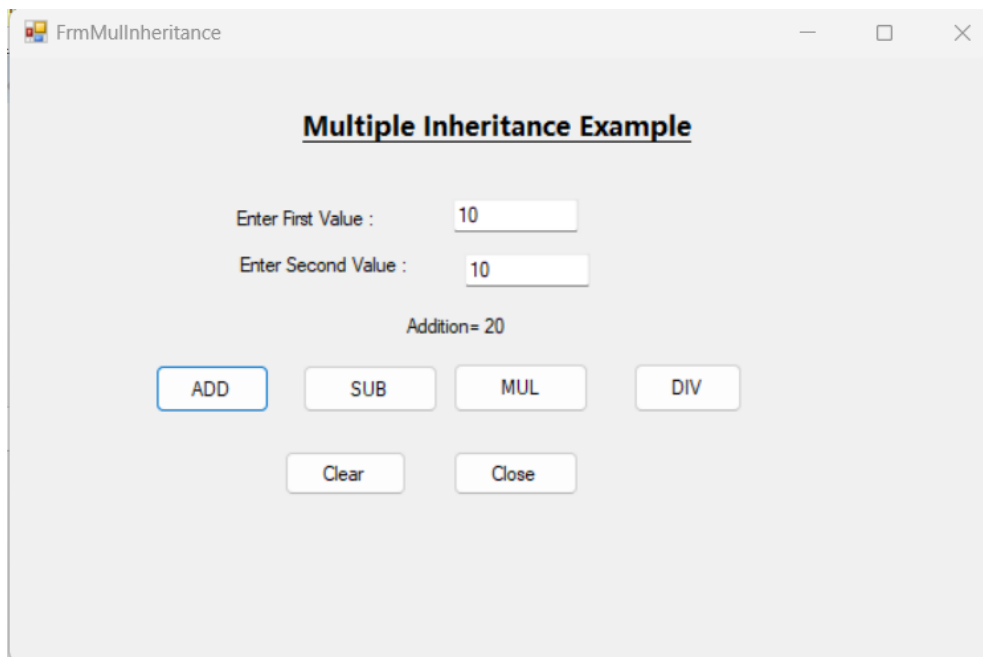
namespace PracticalNo01
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new FrmMulInheritance());
        }
    }
}

```

- **OUTPUT :**



The screenshot shows a Windows application window titled "FrmMulInheritance". The window has a title bar with standard minimize, maximize, and close buttons. The main content area has a title "Multiple Inheritance Example". Below the title, there are two input fields: "Enter First Value :" and "Enter Second Value :". Both fields are currently empty. Below these fields is the text "Answer". Underneath "Answer" are four buttons: "ADD", "SUB", "MUL", and "DIV". At the bottom of the window are two more buttons: "Clear" and "Close".



The screenshot shows the same "FrmMulInheritance" application window. The "Enter First Value :" field now contains the number "10" and the "Enter Second Value :" field also contains the number "10". Below these fields, the text "Addition= 20" is displayed. The "ADD" button is now highlighted with a blue border, indicating it was the button clicked to perform the operation. The other buttons ("SUB", "MUL", "DIV", "Clear", and "Close") remain in their original state.

FrmMulInheritance

### Multiple Inheritance Example

Enter First Value :

Enter Second Value :

Subtraction= 0

ADD SUB MUL DIV

Clear Close

FrmMulInheritance

### Multiple Inheritance Example

Enter First Value :

Enter Second Value :

Multiplication= 100

ADD SUB MUL DIV

Clear Close

FrmMulInheritance

### Multiple Inheritance Example

Enter First Value :

Enter Second Value :

Division= 1

ADD SUB MUL DIV

Clear Close

FrmMulInheritance

### Multiple Inheritance Example

Enter First Value :

Enter Second Value :

Division= 1

ADD SUB MUL DIV

Clear Close