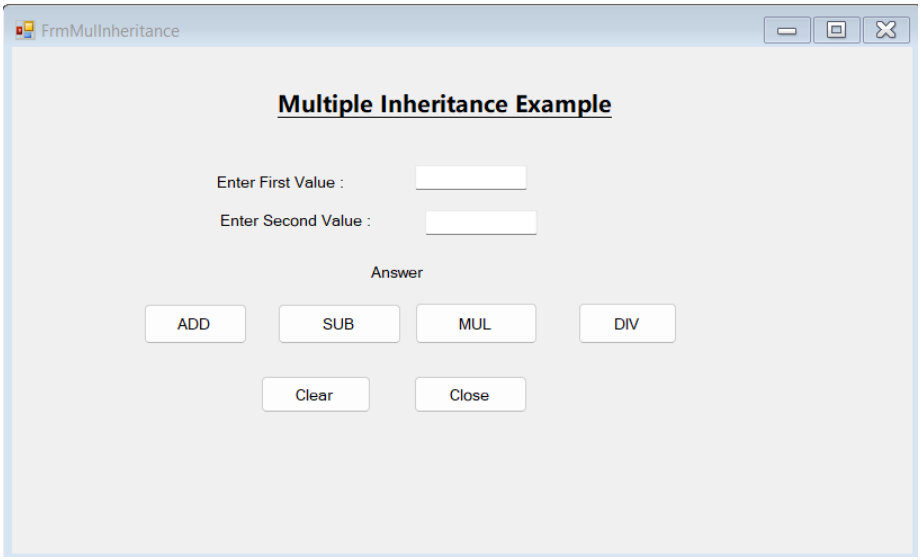
Que.4.Design a Window application to demonstrate multiple inheritance.

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)
      {
```

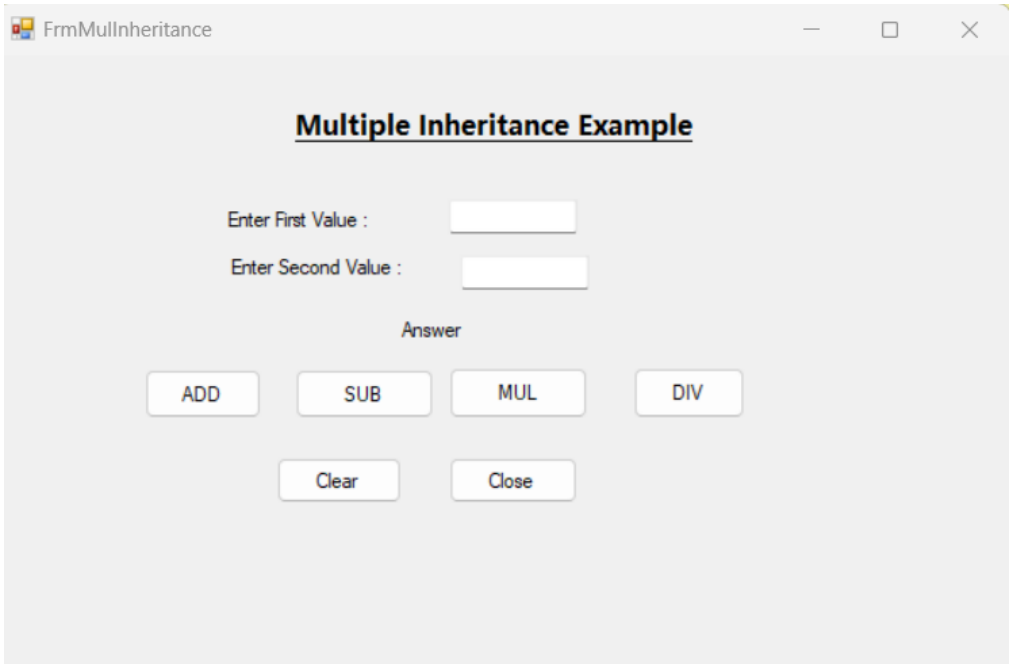
```
    }

    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
```

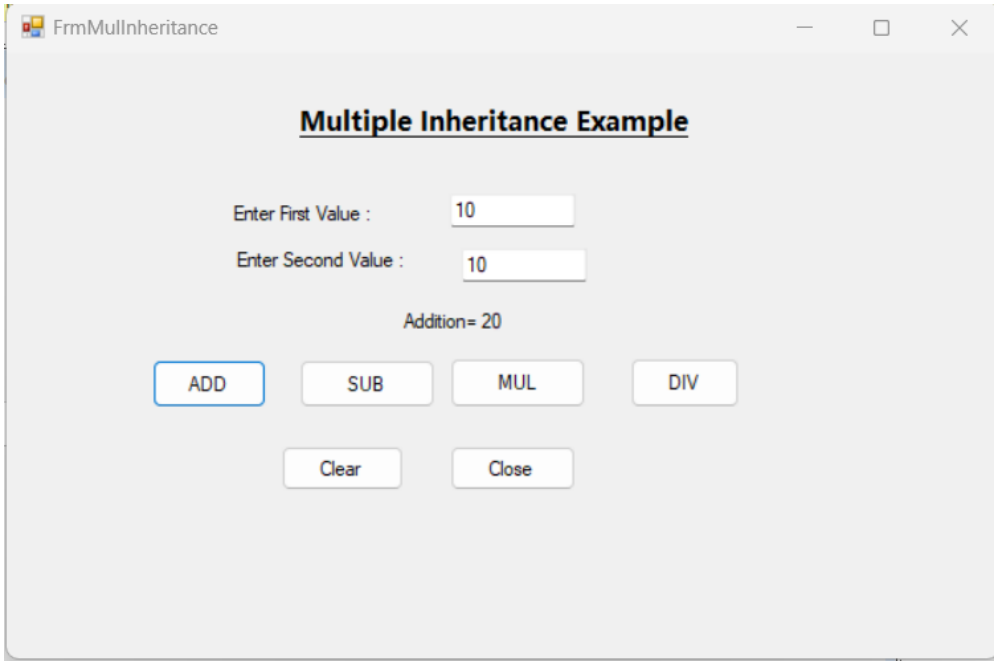
```
    {
        int mul(int r, int s);
    }
    interface calc4
    {
        int div(int c, int d);
    }
    class Calculation : calc1, calc2, calc3, calc4
    {
        public int add(int a, int b)
        {
            return a + b;
        }

        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;
        }
    }

    }
```

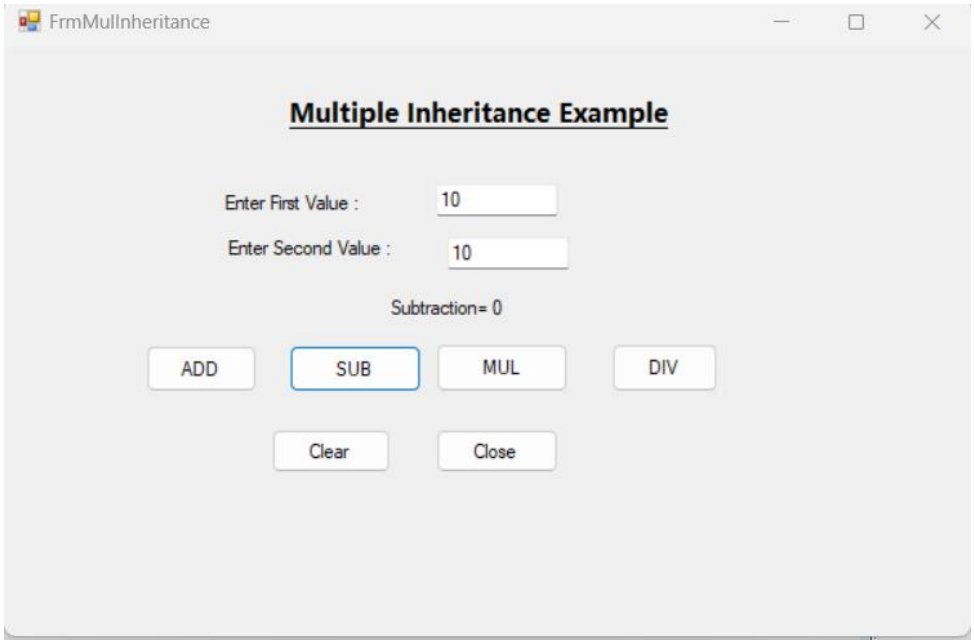
Program.cs

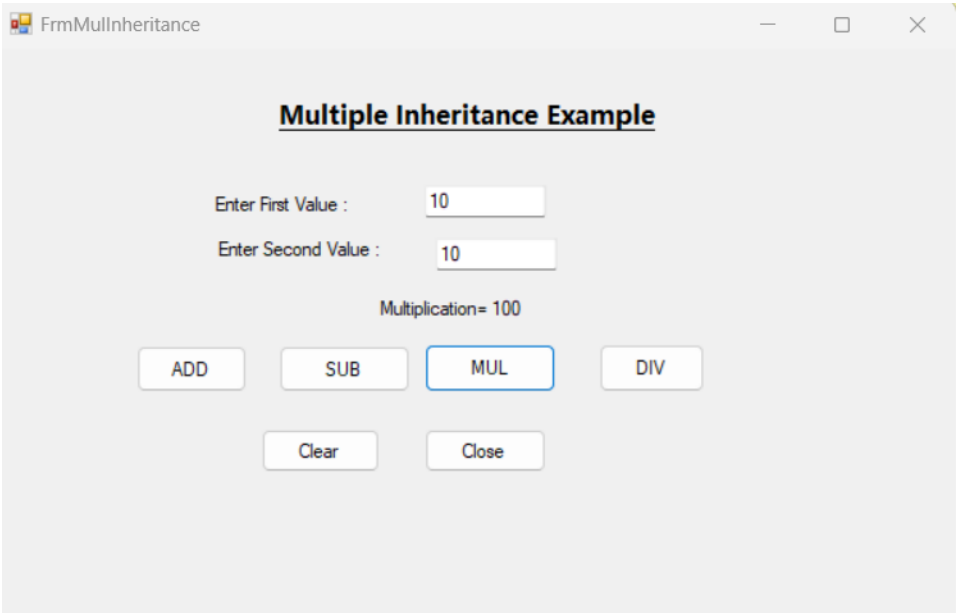
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Windows.Forms;

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());
        } }}
```

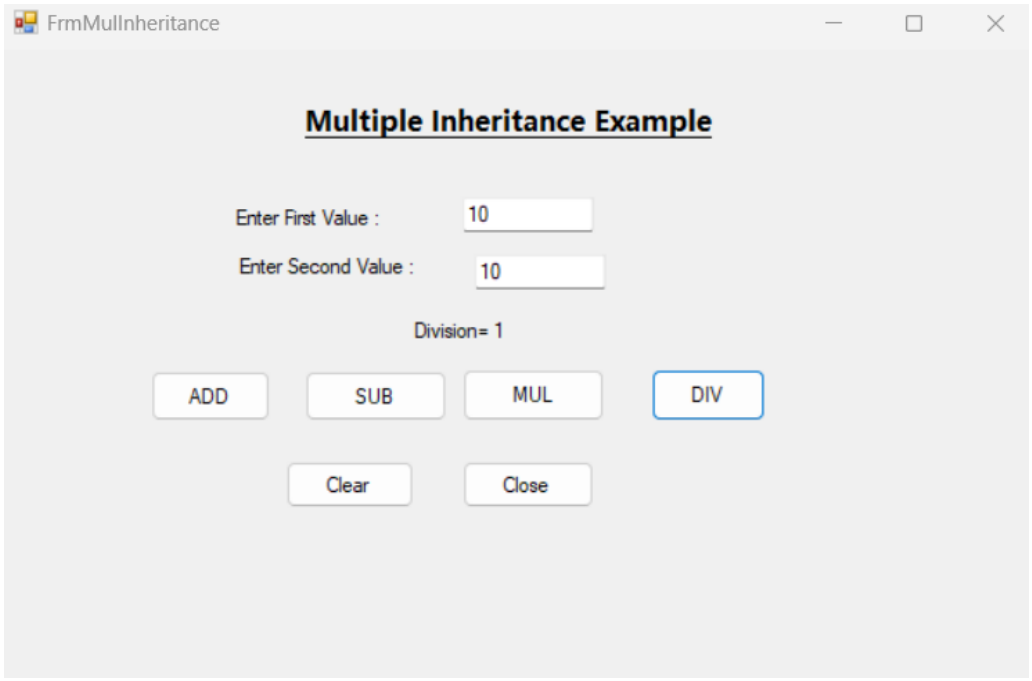
- **OUTPUT :**

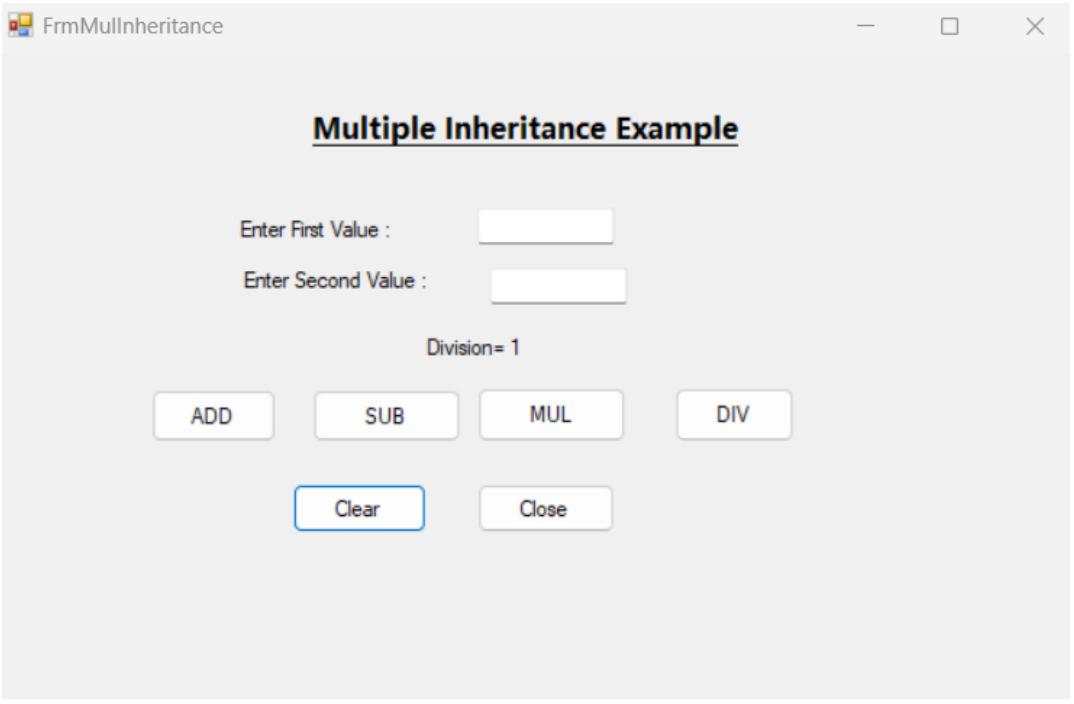

FrmMulInheritance
Multiple Inheritance Example
Enter First Value :
Enter Second Value :
Answer
ADD
SUB
MUL
DIV
Clear
Close


FrmMulInheritance
Multiple Inheritance Example
Enter First Value :
10
Enter Second Value :
10
Addition= 20
ADD
SUB
MUL
DIV
Clear
Close


FrmMulInheritance
Multiple Inheritance Example
Enter First Value :
10
Enter Second Value :
10
Subtraction= 0
ADD
SUB
MUL
DIV
Clear
Close


FrmMulInheritance
Multiple Inheritance Example
Enter First Value :
10
Enter Second Value :
10
Multiplication= 100
ADD
SUB
MUL
DIV
Clear
Close


FrmMulInheritance
Multiple Inheritance Example
Enter First Value :
10
Enter Second Value :
10
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