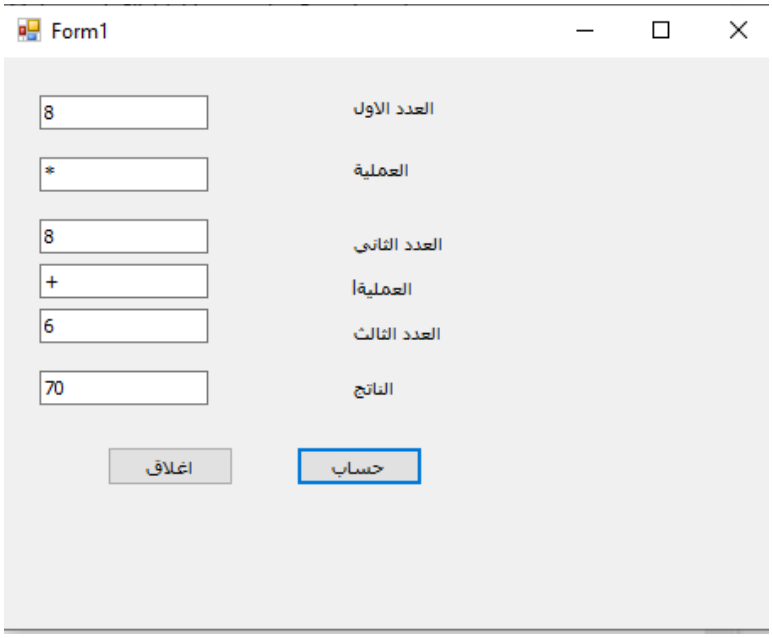
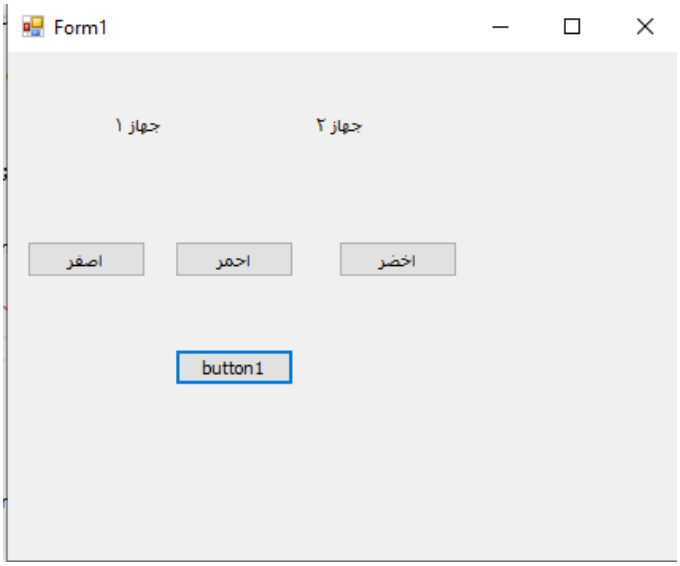



```
System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsحسب_الاولوية
{
    public partial class Form1 : Form
    {
        public Form1()
        {
        double x, y, z;
        string[] op = { "+", "-", "*", "/" }
        {

            Initializecomponent();


        {
            double number1, number2, number3;
            string operation1 = txtoperation1.Text;
            string operation2 = txtoperation2.Text;
            string finalresult = " ";
            if (double.TryParse(txtnumber1.Text, out number1) &&
double.TryParse(txtnumber2.Text, out number2) &&
double.TryParse(txtnumber3.Text, out number3))
            {
                //حساب النتيجة النهائية بناء على الاولوية
                try
                {
                    finalresult = calculatefinalresult(number1, number2,
number3, operation1, operation2).ToString();
                    txtresult.Text = finalresult;
```

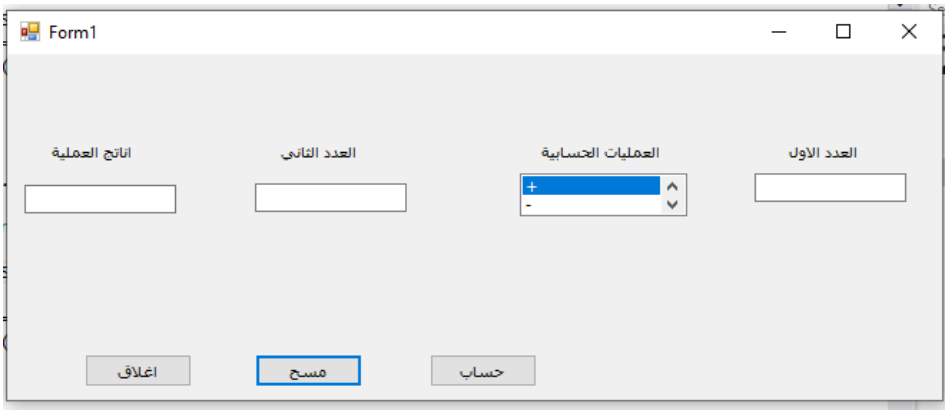
```
                }
                catch (Exception ex)
                {
                    MessageBox.Show(ex.Message);
                }
            }
            else
            {
                MessageBox.Show("يرجئ ادخال ارقام صحيحة");
            }
            }
          private double calculatefinalresult(double num1 ,double num2 ,
double num3, string operation1 , string operation2)
            {
                double intermediateresult;
                //تنفيذ العملية الاولئ
                intermediateresult=performOperation(num1,num2,operation1);
                //تنفيذ العملية الثانية
                return performOperation(intermediateresult,num3,operation2);
            }
        private double performOperation(double num1,double num2,string
operation)
        {
            switch(operation)
            {
                case "+":
                    return num1 + num2;
                case "-":
                    return num1 - num2;
                case "*":
                    return num1 * num2;
                case "/":
                    if(num2 != 0)
                        return num1/num2;
                    else
                        throw new DivideByZeroException("لا يمكن القسمة علئ الصفر ");
                default:
                    throw new DivideByZeroException("عملية غير صحيحة");
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {
            this.Close();
```




```
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;
الضغط_عليها
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        private void traingforsender(object sender,EventArgs e)
        {
            //التحقف من نوع الاداة التي تم الضغط عليها
            if(sender is Button button)
            {
                if(button == btnyellow)
                button1.BackColor =Color.Yellow;
```

```
            else if (sender == btnred)
                button1.BackColor =Color.Red;
            else if (((Button)sender).Text ==btngreen.Text)
                button1.BackColor=Color.Green;
                else if (sender is Label label)
                {
                    if(label.Text == " 1جهاز")
                button1.Text=device1.Text;
            else if (sender == device2)
                button1.Text = device2.Text;

}
```

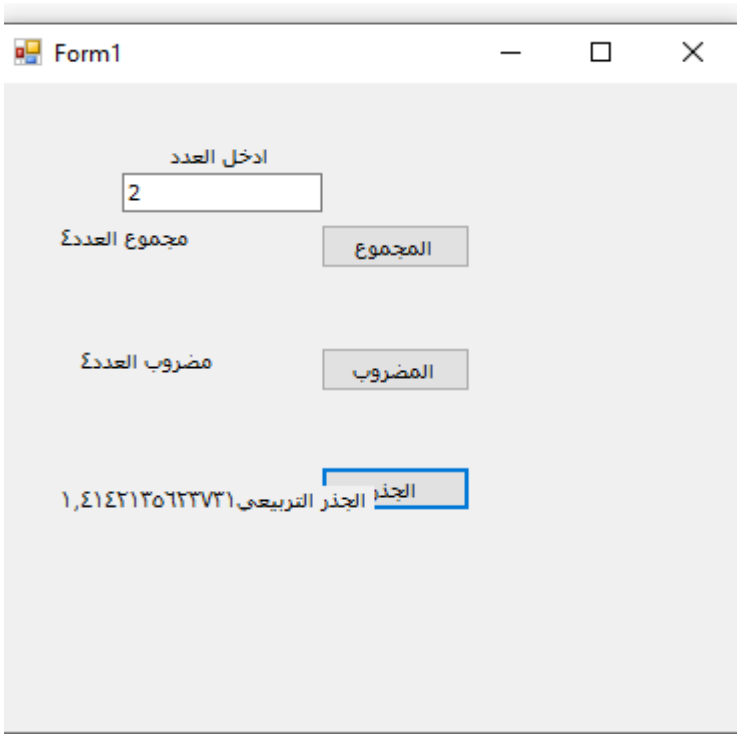
//




```
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 WindowsFormsApplication3
{
    public partial class Form1 : Form
    {
        double x, y, z;
        string[] op = { "+", "-", "*", "/" };
        public Form1()
        {

            InitializeComponent();
            this.listboxoperations.Items.AddRange(op);
            listboxoperations.SelectedIndex = 0;
            listboxoperations.SelectedIndexChanged +=
listboxoperations_SelectedIndexChanged;
        }
        private void ListBoxOperations_SeletedIndexChanged(object seneder,
EventArgs e)
        { CalculateResult(); }

        private void button1_Click(object sender, EventArgs e)
        {
```

```
            this.Close();
        }
        private void form1_load(object sender, EventArgs e)
        {
            txtresult.ReadOnly = true;
        }

        private void button2_Click(object sender, EventArgs e)
        {
            txtn1.Text = txtn2.Text = txtresult.Text = null;
            //txtN1.Clear();
            //txtN2.Clear();
           // txtresult.Clear();
        }
        private void button3_Click(object sender, EventArgs e)
        {
            CalculateResult();
         }
        private void CalculateResult()
        {
            try
            {
                x = Convert.ToDouble(txtn1.Text);
            }
            catch (Exception)
            {

MessageBox.Show("تحذير:");//,MessageBoxButtons.OK,MessageBoxIcon.Hand);
                txtn1.Text = " ";
                txtn1.Focus();
                return;
            }
            try
            {
                y = Convert.ToDouble(txtn2.Text);
            }
            catch (Exception)
            {
                MessageBox.Show("تحذير");// MessageBoxButtons . OK ,
MessageBoxIcon.Hand);

                txtn2.Text = " ";
                txtn2.Focus();
                return;
            }
            bool f = true;
            switch
                (listboxoperations.SelectedIndex)
            {
                default:
                    break;
                case 0: z = x + y;
                    break;
                case 1: z = x - y;
                    break;
                case 2: z = x * y;
                    break;
                case 3:
                    if (y != 0)
                    {
                        z = x / y;
                        break;
```

```
                    }
                    else
                    {
                        MessageBox.Show("error");
                        f = false;
                        txtresult.Text = null;
                        break;
                    }
            }
            if (f)
                txtresult.Text = z.ToString();
}
```




```
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 WindowsFormsالنموذج_الرابع
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
```

```
}

private void button3_Click(object sender, EventArgs e)
{
    double num;
    if (double.TryParse(textBoxinput.Text, out num))
    {
        if (num < 0)
        {
            MessageBox.Show("لايمكن حساب الجذر");
        }
        else
        {
            double squar = Math.Sqrt(num);
            labelsquarresult.Text = "الجذر التربيعي" + squar.ToString();
        }
    }
    else
    {
        MessageBox.Show("يرجئ ادخال العدد الصحيح");
    }


}

private void Form1_Load(object sender, EventArgs e)
{

}

private void buttonsum_Click(object sender, EventArgs e)
{
    double num;
    if (double.TryParse(textBoxinput.Text, out num))
    {
        double sum = num + num;
        labelsumresult.Text = "مجموع العدد" + sum.ToString();
    }
    else
    {
        MessageBox.Show("يرجئ ادخال العدد الصحيح");
    }
}

private void buttonproduct_Click(object sender, EventArgs e)
{
    double num;
    if (double.TryParse(textBoxinput.Text, out num))
    {
        double product = num * num;
        labelproduct.Text = "مضروب العدد" + product.ToString();
    }
    else
    {
        MessageBox.Show("يرجئ ادخال العدد الصحيح");
    }

}
```