

بسم الله الرحمن الرحيم

تكليف المحاضرة ٢ عملي C#

عمل الطالب / حازم هزام جمال احمد العمري

اشراف م / نجم الدين الدغار

واجهة اله حاسبة بسيطة .

The image shows a screenshot of a simple calculator application window. The window title is "Calclater". It contains two input fields for numbers: "Number1" with the value "5" and "Number2" with the value "7". Below these is a "Result" field displaying "35". There are five buttons: "ADD", "Sub", "Mult", "Div", and "Clear". The "Mult" button is highlighted with a blue border. At the bottom left is a red "Exit" button. The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

```

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 Lect2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            button1.Enabled = button2.Enabled = button3.Enabled =
button4.Enabled = false;
        }

        private void button1_Click(object sender, EventArgs e)
        {
            if (textBox1.Text.Trim() == "")
            {
                MessageBox.Show("Please enter number 1");
                textBox1.Focus();
            }
            else if (textBox2.Text.Trim() == "")
            {
                MessageBox.Show("Please enter number 2");
                textBox2.Focus();
            }
            else
            {
                // الإدخال مع العمليات
                double number1 = Convert.ToDouble(textBox1.Text);
                double number2 = Convert.ToDouble(textBox2.Text);
                double result = number1 + number2;
                textBox3.BackColor = Color.Cyan;
                string sum = result.ToString();
            }
        }
    }
}

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        textBox3.Text = sum;

    }

}

private void label1_Click(object sender, EventArgs e)
{

}

private void textBox1_KeyPress(object sender, KeyPressEventArgs e)
{
    // Allow only numbers, backspace, negative sign, and decimal point
    if ((e.KeyChar < 48 || e.KeyChar > 57) && (e.KeyChar != 8) &&
e.KeyChar != 45 && e.KeyChar != 46)
    {
        e.Handled = true;
    }
}

private void textBox2_KeyPress(object sender, KeyPressEventArgs e)
{
    // Same validation for textBox2 as in textBox1
    if ((e.KeyChar < 48 || e.KeyChar > 57) && (e.KeyChar != 8) &&
e.KeyChar != 45 && e.KeyChar != 46)
    {
        e.Handled = true;
    }
}

private void textBox3_TextChanged(object sender, EventArgs e)
{

}

private void textBox1_TextChanged(object sender, EventArgs e)
{
    if(textBox1.Text!=""&& textBox2.Text!="")
    {
        button1.Enabled = button2.Enabled = button3.Enabled =
button4.Enabled = true;
    }
    else
    {
        button1.Enabled = button2.Enabled = button3.Enabled =
button4.Enabled = false;
    }
}

```

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private void label3_Click(object sender, EventArgs e)
{

}

private void textBox2_TextChanged(object sender, EventArgs e)
{
    if (textBox1.Text != "" && textBox2.Text != "")
    {
        button1.Enabled = button2.Enabled= button3.Enabled=
button4.Enabled = true;
    }
    else
    {
        button1.Enabled = button2.Enabled = button3.Enabled =
button4.Enabled = false;
    }
}

private void button2_Click(object sender, EventArgs e)
{
    if (textBox1.Text.Trim() == "")
    {
        MessageBox.Show("Please enter number 1");
        textBox1.Focus();

    }
    else if (textBox2.Text.Trim() == "")
    {
        MessageBox.Show("Please enter number 2");
        textBox2.Focus();
    }
    else
    {
        // الإدخال مع العمليات
        double number1 = Convert.ToDouble(textBox1.Text);
        double number2 = Convert.ToDouble(textBox2.Text);
        double result = number1 - number2;
        string sum = result.ToString();
        textBox3.BackColor = Color.Cyan;
        textBox3.Text = sum;
    }
}

private void button3_Click(object sender, EventArgs e)
{
    if (textBox1.Text.Trim() == "")

```

```

{
    MessageBox.Show("Please enter number 1");
    textBox1.Focus();

}
else if (textBox2.Text.Trim() == "")
{
    MessageBox.Show("Please enter number 2");
    textBox2.Focus();
}
else
{
    // الإدخال مع العمليات
    double number1 = Convert.ToDouble(textBox1.Text);
    double number2 = Convert.ToDouble(textBox2.Text);
    double result = number1 * number2;
    string sum = result.ToString();
    textBox3.BackColor = Color.Cyan;
    textBox3.Text = sum;
}
}

private void button4_Click(object sender, EventArgs e)
{
    if (textBox1.Text.Trim() == "")
    {
        MessageBox.Show("Please enter number 1");
        textBox1.Focus();

    }
    else if (textBox2.Text.Trim() == "")
    {
        MessageBox.Show("Please enter number 2");
        textBox2.Focus();
    }
    else
    {
        // الإدخال مع العمليات
        double number1 = Convert.ToDouble(textBox1.Text);
        double number2 = Convert.ToDouble(textBox2.Text);
        if (number2!=0)
        {
            double result = number1 / number2;
            string sum = result.ToString();
            textBox3.BackColor = Color.Cyan;
            textBox3.Text = sum;
        }
    }
}

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    }
    else
    {
        MessageBox.Show("Errorr Divnation by zero ?");
        textBox2.Focus();
    }
}

private void button5_Click(object sender, EventArgs e)
{
    // تصفير المربعات
    textBox1.Clear();
    textBox2.Clear();
    textBox3.Clear();
    textBox1.Focus();
}

private void button6_Click(object sender, EventArgs e)
{
    DialogResult result = MessageBox.Show("Do You Want To Exit ? ",
"Exit", MessageBoxButtons.YesNo, MessageBoxIcon.Question);
    if (result == DialogResult.Yes)
    {
        this.Close();
    }
}
}
}

```