INTCDE21ID008 STAGE-3

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Day 4 - Windows Forms, Windows Service

Hands-On 1:

Windows Form Application

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace winformapp1
   public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void textBox1 TextChanged(object sender, EventArgs e)
        }
        private void button1_Click(object sender, EventArgs e)
            string input1= textBox1.Text;
            string input2 = textBox2.Text;
            if (!Regex.IsMatch(input1, @"\d+$") || !Regex.IsMatch(input2, @"\d+$"))
                MessageBox.Show("enter a number");
            }
            if (radioButton1.Checked)
            {
                MessageBox.Show((int.Parse(input1) + int.Parse(input2)).ToString());
            }
```

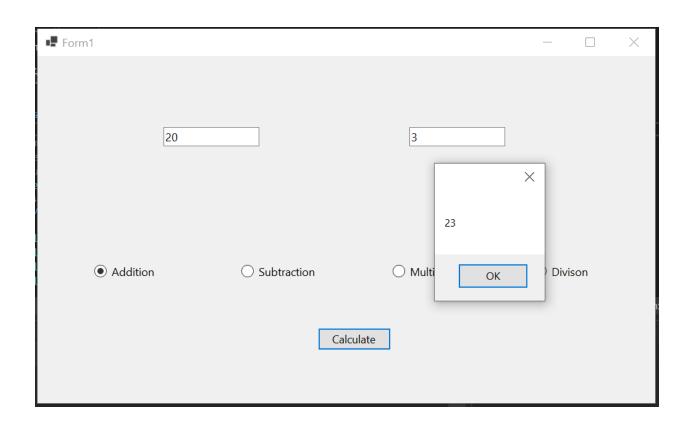
```
else if (radioButton2.Checked)
                MessageBox.Show((int.Parse(input1) - int.Parse(input2)).ToString());
            else if (radioButton3.Checked)
            {
                MessageBox.Show((int.Parse(input1) * int.Parse(input2)).ToString());
            }
            else if (radioButton4.Checked)
                MessageBox.Show((int.Parse(input1) / int.Parse(input2)).ToString());
            }
            else
            {
                MessageBox.Show("Select a Option");
            }
        }
    }
}
Form1.Designer.cs
namespace winformapp1
    partial class Form1
protected override void Dispose(bool disposing)
            if (disposing && (components != null))
            {
                components.Dispose();
            base.Dispose(disposing);
        private void InitializeComponent()
            this.textBox1 = new System.Windows.Forms.TextBox();
            this.textBox2 = new System.Windows.Forms.TextBox();
            this.radioButton1 = new System.Windows.Forms.RadioButton();
            this.radioButton2 = new System.Windows.Forms.RadioButton();
            this.radioButton3 = new System.Windows.Forms.RadioButton();
            this.radioButton4 = new System.Windows.Forms.RadioButton();
            this.button1 = new System.Windows.Forms.Button();
            this.SuspendLayout();
            this.textBox1.Location = new System.Drawing.Point(163, 92);
            this.textBox1.Name = "textBox1";
            this.textBox1.Size = new System.Drawing.Size(125, 27);
            this.textBox1.TabIndex = 0;
            this.textBox1.TextChanged += new
System.EventHandler(this.textBox1_TextChanged);
            this.textBox2.Location = new System.Drawing.Point(482, 92);
            this.textBox2.Name = "textBox2";
```

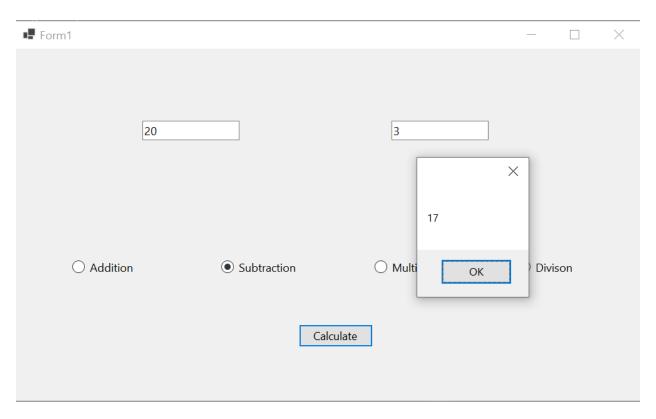
```
this.textBox2.Size = new System.Drawing.Size(125, 27);
    this.textBox2.TabIndex = 1;
    this.radioButton1.AutoSize = true;
    this.radioButton1.Location = new System.Drawing.Point(74, 267);
    this.radioButton1.Name = "radioButton1";
    this.radioButton1.Size = new System.Drawing.Size(88, 24);
    this.radioButton1.TabIndex = 2;
    this.radioButton1.TabStop = true;
    this.radioButton1.Text = "Addition";
    this.radioButton1.UseVisualStyleBackColor = true;
    this.radioButton2.AutoSize = true;
    this.radioButton2.Location = new System.Drawing.Point(264, 267);
    this.radioButton2.Name = "radioButton2";
    this.radioButton2.Size = new System.Drawing.Size(106, 24);
    this.radioButton2.TabIndex = 3;
    this.radioButton2.TabStop = true;
    this.radioButton2.Text = "Subtraction";
    this.radioButton2.UseVisualStyleBackColor = true;
    this.radioButton3.AutoSize = true;
    this.radioButton3.Location = new System.Drawing.Point(460, 267);
    this.radioButton3.Name = "radioButton3";
    this.radioButton3.Size = new System.Drawing.Size(122, 24);
    this.radioButton3.TabIndex = 4;
    this.radioButton3.TabStop = true;
    this.radioButton3.Text = "Multiplication";
    this.radioButton3.UseVisualStyleBackColor = true;
    this.radioButton4.AutoSize = true;
    this.radioButton4.Location = new System.Drawing.Point(643, 267);
    this.radioButton4.Name = "radioButton4";
    this.radioButton4.Size = new System.Drawing.Size(79, 24);
    this.radioButton4.TabIndex = 5;
    this.radioButton4.TabStop = true;
    this.radioButton4.Text = "Divison";
    this.radioButton4.UseVisualStyleBackColor = true;
    this.button1.Location = new System.Drawing.Point(363, 352);
    this.button1.Name = "button1";
    this.button1.Size = new System.Drawing.Size(94, 29);
    this.button1.TabIndex = 6;
    this.button1.Text = "Calculate";
    this.button1.UseVisualStyleBackColor = true;
    this.button1.Click += new System.EventHandler(this.button1 Click);
    this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 20F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.ClientSize = new System.Drawing.Size(800, 450);
    this.Controls.Add(this.button1);
    this.Controls.Add(this.radioButton4);
    this.Controls.Add(this.radioButton3);
    this.Controls.Add(this.radioButton2);
    this.Controls.Add(this.radioButton1);
    this.Controls.Add(this.textBox2);
    this.Controls.Add(this.textBox1);
    this.Name = "Form1";
    this.Text = "Form1";
    this.ResumeLayout(false);
    this.PerformLayout();
}
```

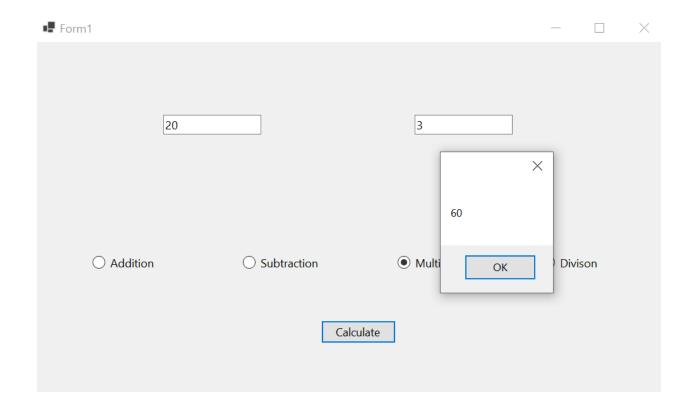
```
#endregion
        private System.Windows.Forms.TextBox textBox1;
       private System.Windows.Forms.TextBox textBox2;
       // private System.Windows.Forms.RadioButton addition;
        private System.Windows.Forms.RadioButton radioButton1;
        private System.Windows.Forms.RadioButton radioButton2;
        private System.Windows.Forms.RadioButton radioButton3;
        private System.Windows.Forms.RadioButton radioButton4;
       private System.Windows.Forms.Button button1;
    }
}
Program.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace winformapp1
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
            Application.SetHighDpiMode(HighDpiMode.SystemAware);
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
   }
```

OUTPUT:

}









Windows Form Application

Form1.cs

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```
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 WinForm
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            OpenFileDialog openFileDialog1 = new OpenFileDialog
                InitialDirectory = @"E:\",
                Filter = "image(*.jpg) | *.jpg"
            };
            if (openFileDialog1.ShowDialog() == DialogResult.OK)
            {
                picture.SizeMode = PictureBoxSizeMode.StretchImage;
                picture.Image = new Bitmap(openFileDialog1.FileName);
            }
        }
        private void pictureBox1_Click(object sender, EventArgs e)
        }
    }
}
Form1.Designer.cs
namespace winform
{
    partial class Form1
        /// <summary>
        /// Required designer variable.
```

```
/// </summary>
        private System.ComponentModel.IContainer components = null;
        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed;
otherwise, false.</param>
        protected override void Dispose(bool disposing)
            if (disposing && (components != null))
                components.Dispose();
            base.Dispose(disposing);
        }
        #region Windows Form Designer generated code
        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
            this.button1 = new System.Windows.Forms.Button();
            this.openFileDialog1 = new System.Windows.Forms.OpenFileDialog();
            this.picture = new System.Windows.Forms.PictureBox();
            ((System.ComponentModel.ISupportInitialize)(this.picture)).BeginInit();
            this.SuspendLayout();
            //
            // button1
            //
            this.button1.Location = new System.Drawing.Point(362, 368);
            this.button1.Name = "button1";
            this.button1.Size = new System.Drawing.Size(94, 29);
            this.button1.TabIndex = 0;
            this.button1.Text = "button1";
            this.button1.UseVisualStyleBackColor = true;
            this.button1.Click += new System.EventHandler(this.button1_Click);
            // openFileDialog1
            this.openFileDialog1.FileName = "openFileDialog1";
            //
            // picture
            this.picture.Location = new System.Drawing.Point(55, 12);
            this.picture.Name = "picture";
            this.picture.Size = new System.Drawing.Size(733, 333);
            this.picture.TabIndex = 1;
            this.picture.TabStop = false;
            this.picture.Click += new System.EventHandler(this.pictureBox1 Click);
            //
            // Form1
            this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 20F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
```

```
this.ClientSize = new System.Drawing.Size(800, 450);
    this.Controls.Add(this.picture);
    this.Controls.Add(this.button1);
    this.Name = "Form1";
    this.Text = "Form1";
    ((System.ComponentModel.ISupportInitialize)(this.picture)).EndInit();
    this.ResumeLayout(false);
}

#endregion
    private System.Windows.Forms.Button button1;
    private System.Windows.Forms.OpenFileDialog openFileDialog1;
    private System.Windows.Forms.PictureBox picture;
}
```

Program.cs

```
using System;
using System.Collections.Generic;
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using System.Threading.Tasks;
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namespace winformapp1
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
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        [STAThread]
        static void Main()
            Application.SetHighDpiMode(HighDpiMode.SystemAware);
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
   }
}
```

OUTPUT:

