

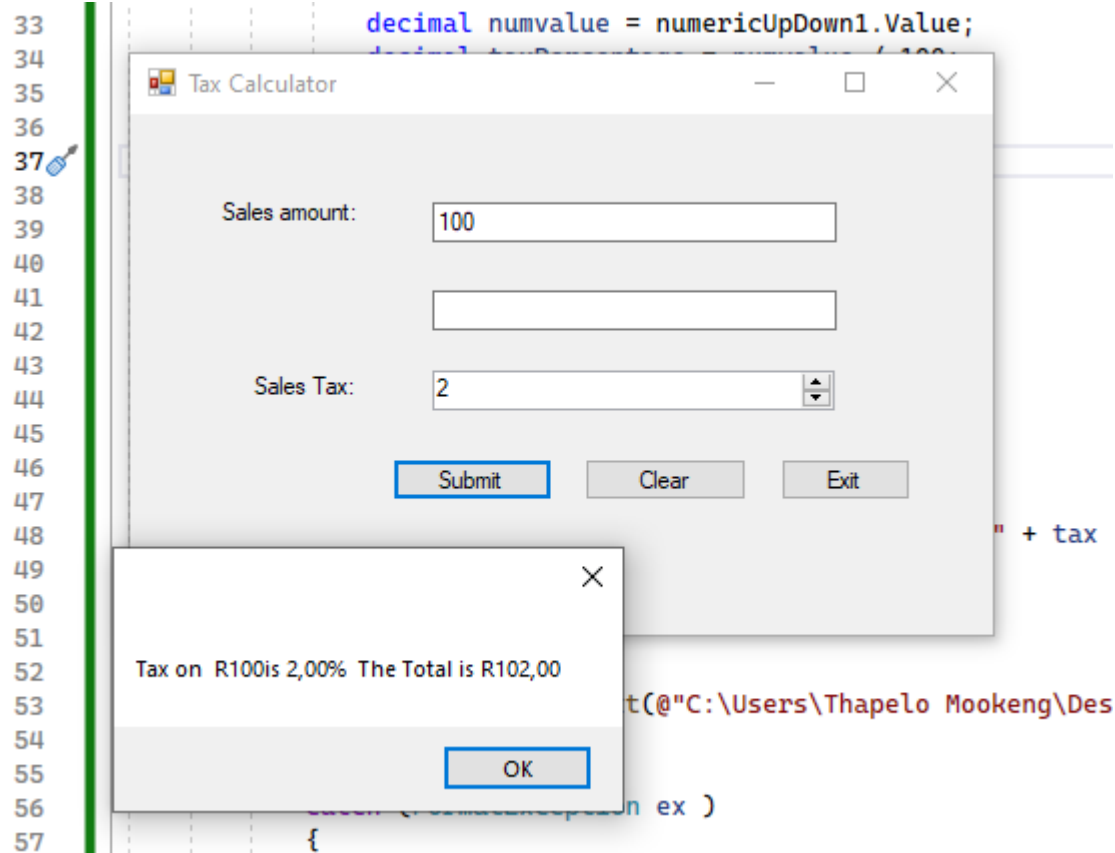
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PRG521 FA3

IT Software Development Semester 1

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Output:



Coding:

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

namespace TaxCalculator
{
    public partial class Form1 : Form
    {
        private object textBox3;

        public Form1()
        {
            InitializeComponent();

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

```

int num1;
try {

    num1 = int.Parse(txtNumber1.Text);

    decimal numvalue = numericUpDown1.Value;
    decimal taxPercentage = numvalue / 100;

    decimal tax = num1 * taxPercentage;
    decimal total = num1 + tax;

    int result = num1;

    MessageBox.Show("Tax on R" + num1 + "is " + tax + "% The Total
is R" + total);

    File.AppendAllText(@"C:\Users\Thapelo
Mookeng\Desktop\TaxCalculator\TaxCalculator\Results.txt", "Result" + "\t" +
result + Environment.NewLine);

}
catch (FormatException ex )
{
    File.AppendAllText(@"C:\Users\Thapelo
Mookeng\Desktop\TaxCalculator\TaxCalculator\Exceptionfile.txt", "Expeceptions"+
"\t"+ex.Message + Environment.NewLine);
    MessageBox.Show("Please enter a valid number in both fields",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning);

}
finally
{
    MessageBox.Show("Thank you!!!", "End of Program",
MessageBoxButtons.YesNoCancel, MessageBoxIcon.Information);

}

}

private void btnClear_Click(object sender, EventArgs e)
{
    txtNumber1.Text = null; txtNumber2.Text = null;
    numericUpDown1.Text = null;
}

private void btnExit_Click(object sender, EventArgs e)
{

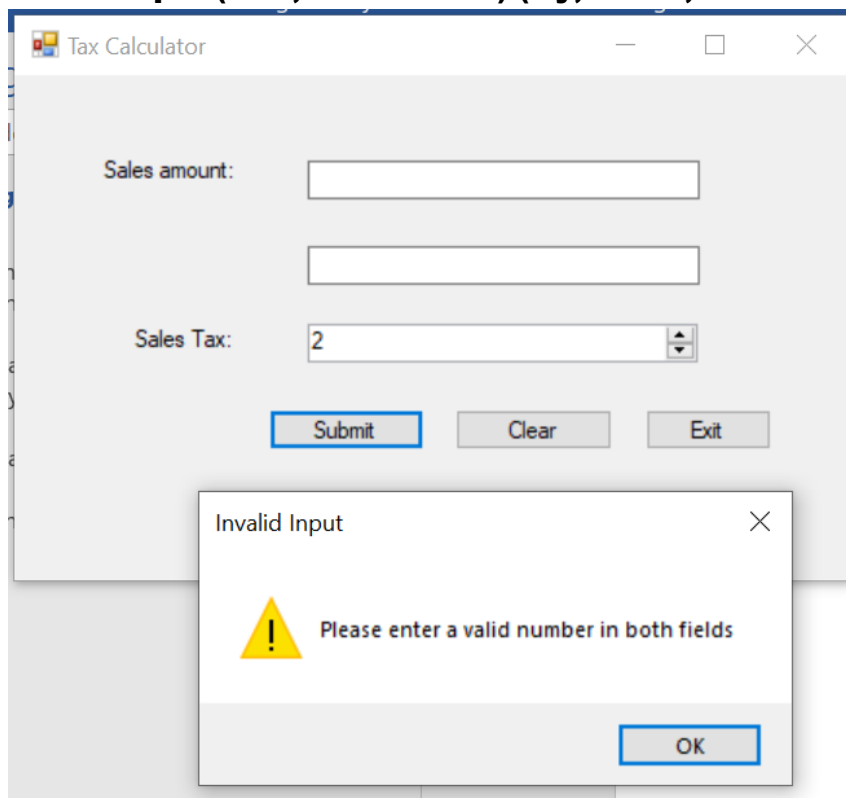
```

```

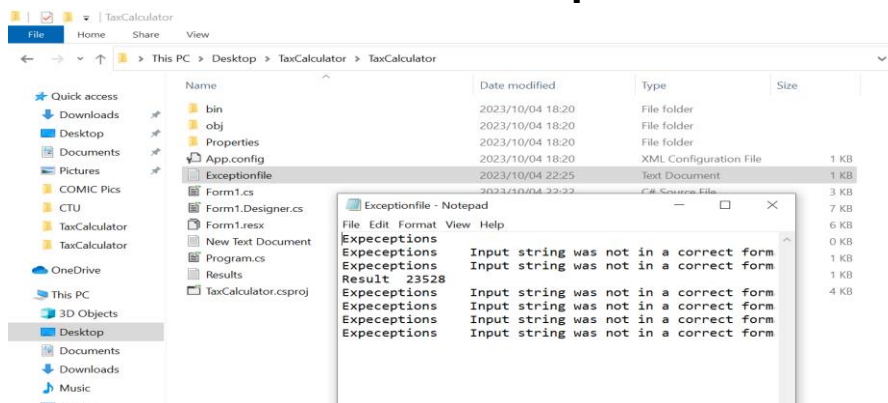
        DialogResult result = MessageBox.Show("Are you sure you want to exit?", "Exit Application", MessageBoxButtons.YesNo, MessageBoxIcon.Question);
        if (result == DialogResult.Yes)
        {
            Application.Exit();
        }
    }
}

```

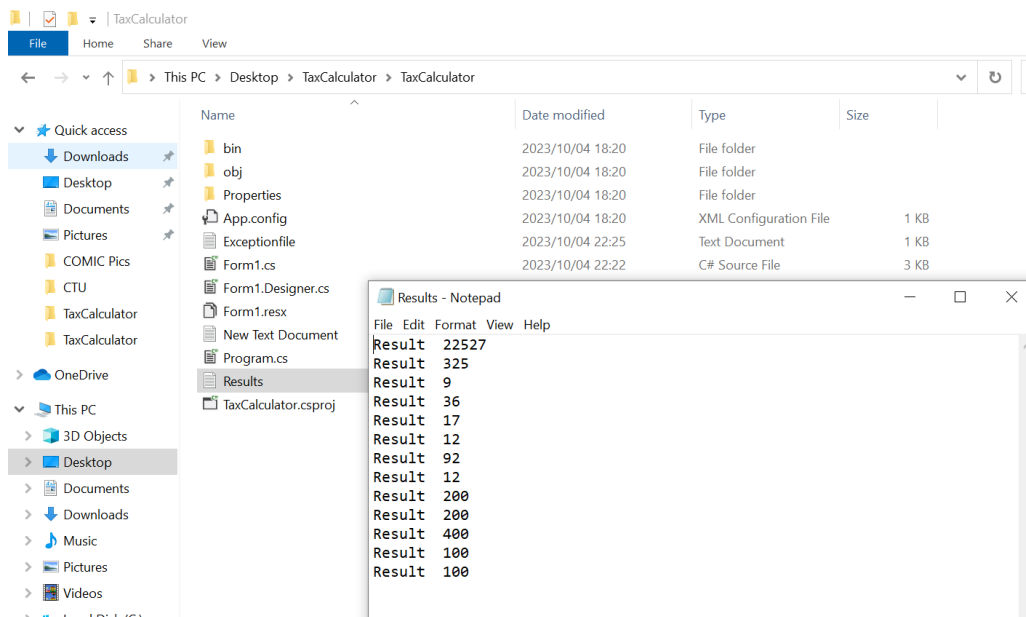
1. Exception handling should be used to prevent users from entering invalid input (text, character...) (try, catch, and finally).



2. All exception messages should be displayed using a message box and saved in a text file called Exceptionfile.txt



3. All results should be saved in a file called TaxCalculation.txt. The result should be saved once the Submit button is pressed.



3. Meaning your program will have two separate text files one to record all exceptions thrown – message and the other to record all tax calculations and the date and time the operation occurred.

