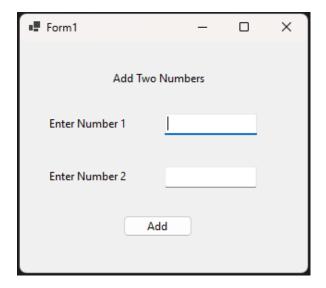
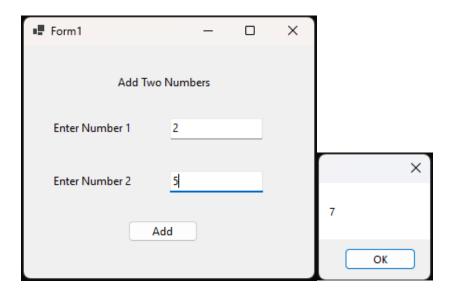
# **Exceptions Handling I**

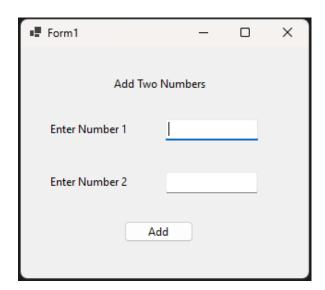
### **Exercise 01**

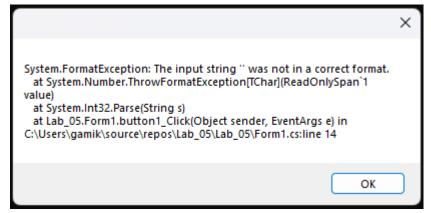
01.



```
namespace Lab_05
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        }
        private void button1_Click(object sender, EventArgs e)
            try
            {
                int num1 = int.Parse(txtnum1.Text);
                int num2 = int.Parse(txtnum2.Text);
                int num3 = num1 + num2;
                MessageBox.Show(num3.ToString());
            }
            catch (Exception e1)
                MessageBox.Show(e1.ToString());
        }
    }
}
```

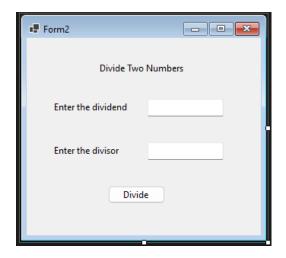




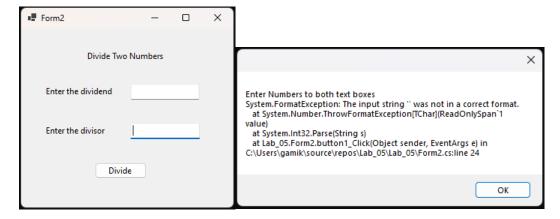


#### Exercise 02

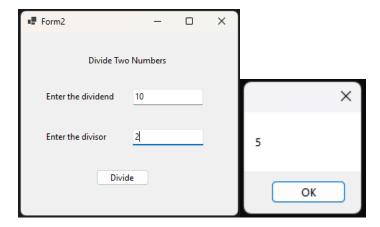
01.



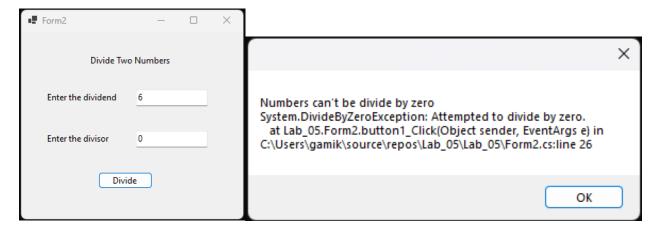
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace Lab_05
    public partial class Form2 : Form
        public Form2()
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            try
            {
                int num1 = int.Parse(txtDividend.Text);
                int num2 = int.Parse(txtDivisor.Text);
                int num3 = num1 / num2;
                MessageBox.Show(num3.ToString());
            }
            catch (FormatException e1)
                MessageBox.Show("Enter Numbers to both text boxes"+
Environment.NewLine+ e1.ToString());
```



### 06.b

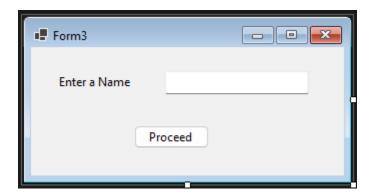


06.c

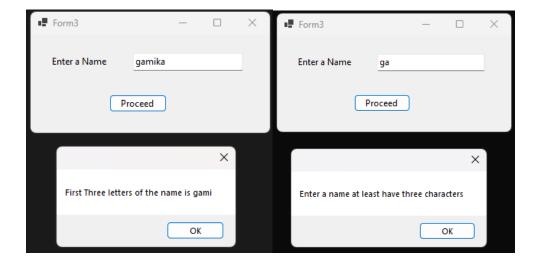


### Exercise 03

### 01.



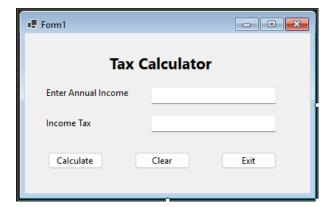
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# **Exceptions Handling II**

### **Exercise 01**

### 01.



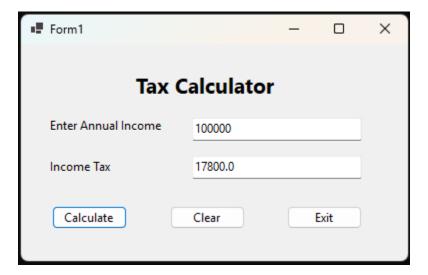
int band3 = 150000;

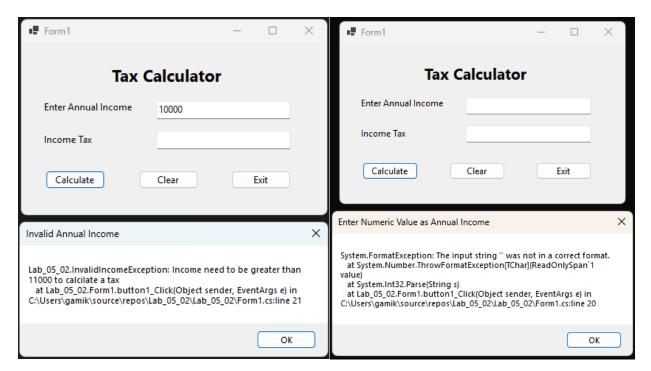
```
decimal tax = 0;
                string msg = "Income need to be greater than 11000 to calcilate a tax";
                int salary = int.Parse(txtIncome.Text);
                if (salary < noTaxThreshold) throw new</pre>
                InvalidIncomeException(msg);
                if (salary >= band3)
                    tax = (salary - noTaxThreshold) * (decimal)0.45;
                if (salary > band2)
                    tax = (salary - noTaxThreshold) * (decimal)0.40;
                if (salary > band1)
                    tax = (salary - noTaxThreshold) * (decimal)0.20;
                txtTax.Text = tax.ToString();
            catch (InvalidIncomeException e1)
            {
                MessageBox.Show(e1.ToString(), " Invalid Annual Income");
            catch (FormatException e1)
                MessageBox.Show(e1.ToString(), "Enter Numeric Value as Annual Income");
            catch (System.OverflowException e1)
                MessageBox.Show(e1.ToString(), "Too Large number to handle");
        }
        private void btnClear_Click(object sender, EventArgs e)
            txtIncome.Clear();
            txtTax.Clear();
        }
        private void btnExit_Click(object sender, EventArgs e)
            this.Close();
        }
    }
    public class InvalidIncomeException : Exception
        public InvalidIncomeException(String message)
        : base(message)
        }
}
```

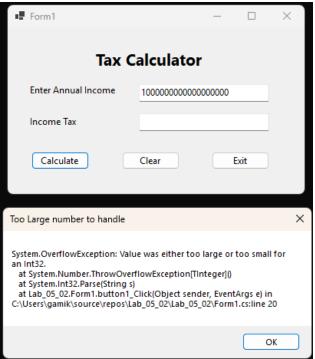
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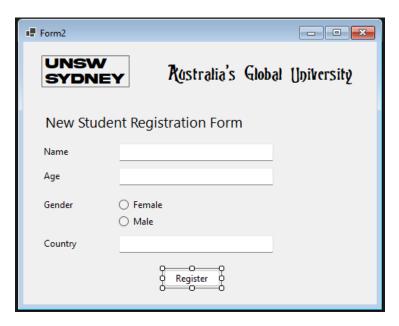






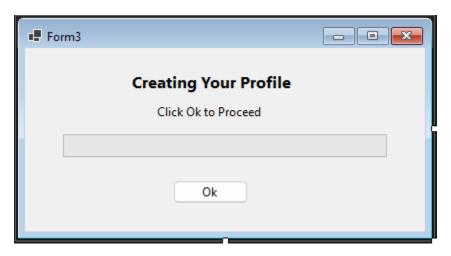
### **Exercise 02**

### 01.

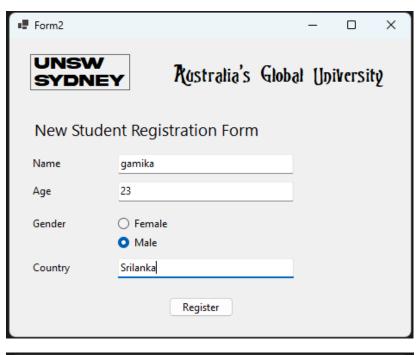


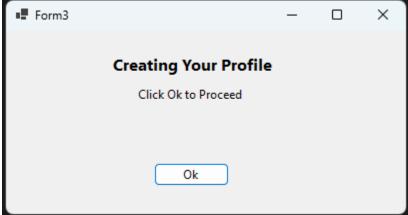
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Diagnostics.Metrics;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using Microsoft.VisualBasic.Devices;
using Microsoft.Win32;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;
namespace Lab_05_02
    public partial class Form2 : Form
        public Form2()
            InitializeComponent();
        private void radioButton2_CheckedChanged(object sender, EventArgs e)
        private void label3_Click(object sender, EventArgs e)
        }
```

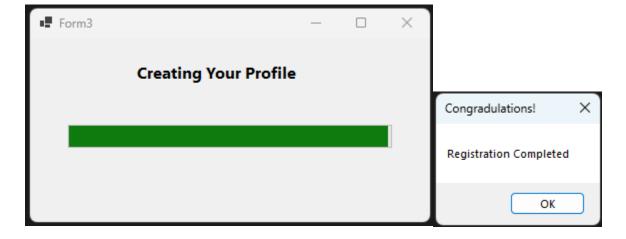
```
private void button1_Click(object sender, EventArgs e)
            try
                string name = txtName.Text;
                int age = int.Parse(txtAge.Text);
                string country = txtCountry.Text;
                string gender;
                if (age < 17 && age > 70)
                    throw new InvalidAgeRangeException("Sorry, You should be older than 15 and
younger than 70 to register our university");
                if (Female.Checked == true)
                    gender = "Female";
                else if (Male.Checked == true)
                    gender = "Male";
                }
                else
                {
                    throw new GenderException("Should Select a gender from the radio buttons");
                Form3 frm3 = new Form3();
                frm3.Show();
            catch (InvalidAgeRangeException e1)
                MessageBox.Show(e1.ToString(), "Can't Register!");
            catch (GenderException e1)
                MessageBox.Show(e1.ToString(), "Warning!");
            catch (FormatException e1)
                MessageBox.Show(e1.ToString(), "Enter a Numerical Value to the Age");
        }
    }
   public class InvalidAgeRangeException : Exception
        public InvalidAgeRangeException(string message)
          base(message)
    }
    public class GenderException : Exception
        public GenderException(string message)
        : base(message)
}
```



```
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 Lab_05_02
    public partial class Form3 : Form
        public Form3()
            InitializeComponent();
        private void Form3_Load(object sender, EventArgs e)
            progressBar1.Visible = false;
        private void btn0k_Click(object sender, EventArgs e)
{
            label2.Visible = false;
            btn0k.Visible = false;
            int value = 0;
            progressBar1.Visible = true;
                progressBar1.Value = value;
                value = value + 1;
            while (value < progressBar1.Maximum);</pre>
            MessageBox.Show("Registration Completed", "Congradulations!");
    }
}
```







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