Form1

Enter n to calculate a factorial

7

Output

5,040.00

Calculate!   Exit

```csharp
namespace Factorial_CalebFontenot
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void exitButton_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        private void calculateButton_Click(object sender, EventArgs e)
        {
            // Reset focus to inputTextBox.
            inputTextBox.Focus();

            // Define variables
            long n, factorial = 0;

            if (!long.TryParse(inputTextBox.Text, out n)) {
                MessageBox.Show("non numeric input.");
            }

            // Check to see if the number given is not negative
            if (!(n <= 0))
            {
                // Calculate factorial.
                factorial = n;
                for (int i = (int)n; i > 2; i--)
                {
                    factorial *= (i - 1);
                }
                outputTextBox.Text = factorial.ToString("N");
            }
            else {
                MessageBox.Show("Invalid input, non-negative number entered.");
            }

        }
    }
}
```