6854 Brandon de Bruyn

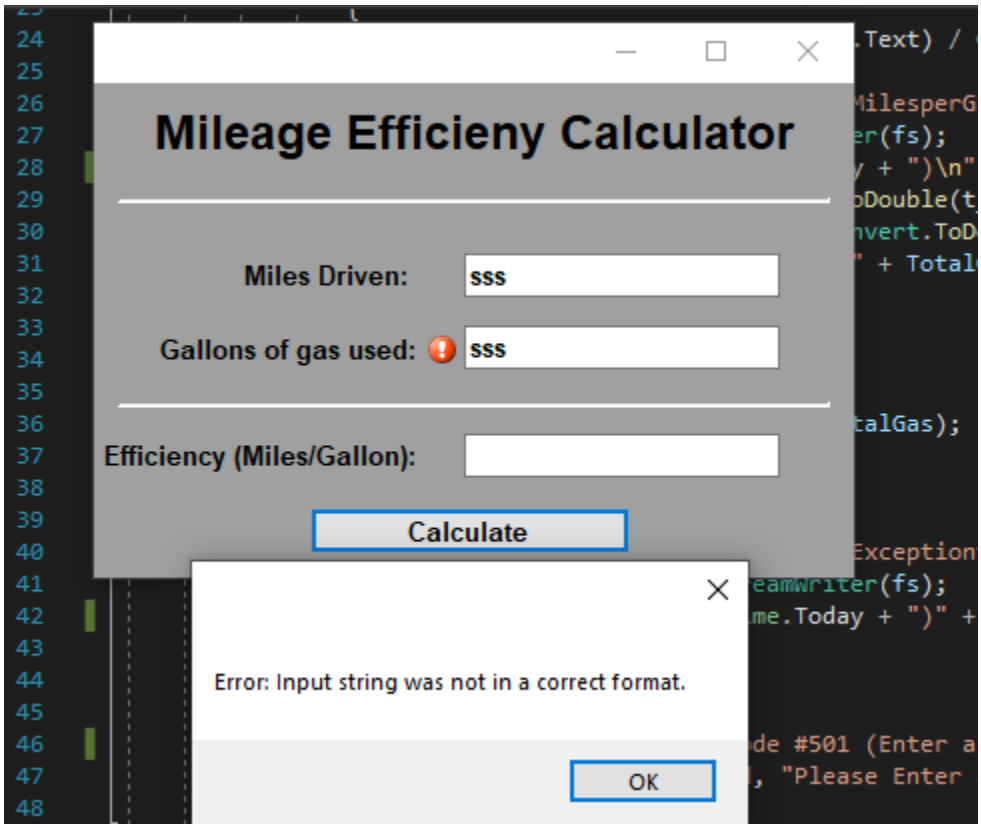
PRG521 FA3

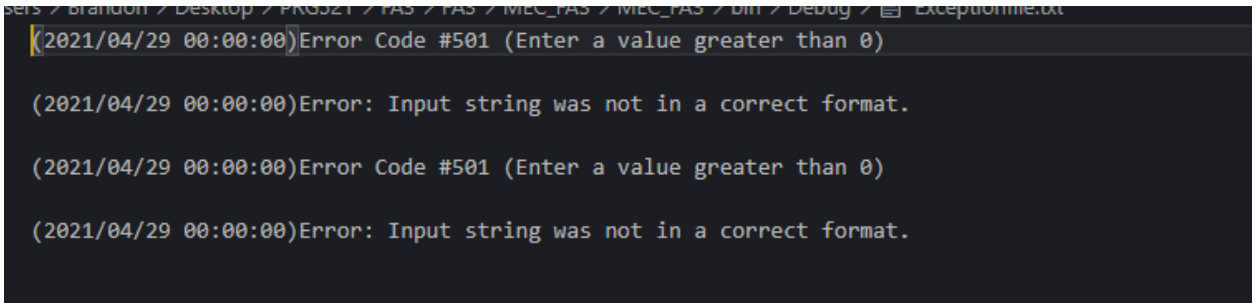
CODE:

```
using System;
using System.Windows.Forms;
using System.Text;
using System.IO;

namespace MEC_FA3
{
   public partial class FA3 : Form
   {
      public FA3()
      {
         InitializeComponent();
      }

      private void b_Calc_Click(object sender, EventArgs e)
      {

         try
         {
            double TotalGas;

            if (Convert.ToDouble(t_GU.Text) != 0)
            {
               TotalGas = Convert.ToDouble(t_Dr.Text) / Convert.ToDouble(t_GU.Text);

               FileStream fs = new FileStream("MilesperGallon.txt", FileMode.Append,
FileAccess.Write);
               StreamWriter sw = new StreamWriter(fs);
               sw.WriteLine("(" + DateTime.Today + ")\n" +
                  "Miles Driven: " + Convert.ToDouble(t_Dr.Text) + "\n" +
                  "Gallons of gas used: " + Convert.ToDouble(t_GU.Text) + "\n" +
                  "Efficiency (Miles/Gallon): " + TotalGas + "\n");
               sw.Flush();
               sw.Close();
               fs.Close();
```

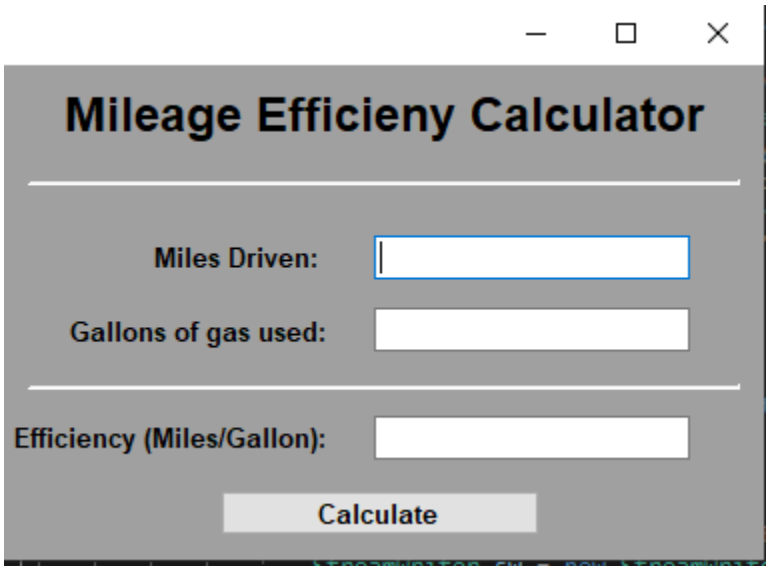
```
                t_Fin.Text = Convert.ToString(TotalGas);

            } else
            {
                FileStream fs = new FileStream("Exceptionfile.txt", FileMode.Append,
FileAccess.Write);
                StreamWriter sw = new StreamWriter(fs);
                sw.WriteLine("(" + DateTime.Today + ")" + "Error Code #501 (Enter a value greater
than 0)" + "\n");
                sw.Flush();
                sw.Close();
                fs.Close();
                MessageBox.Show("Error Code #501 (Enter a value greater than 0)");
                e_prov.SetError(lbl_gused, "Please Enter a value > 0");
            }



        } catch (Exception ex)
        {
            FileStream fs = new FileStream("Exceptionfile.txt", FileMode.Append,
FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);
            sw.WriteLine("(" + DateTime.Today + ")" + "Error: " + ex.Message + "\n");
            sw.Flush();
            sw.Close();
            fs.Close();
            MessageBox.Show("Error: " + ex.Message);
            e_prov.SetError(lbl_gused, "Please Enter a value > 0");

        } finally
        {
            MessageBox.Show("Files Saved");
        }
    }
  }
}
```

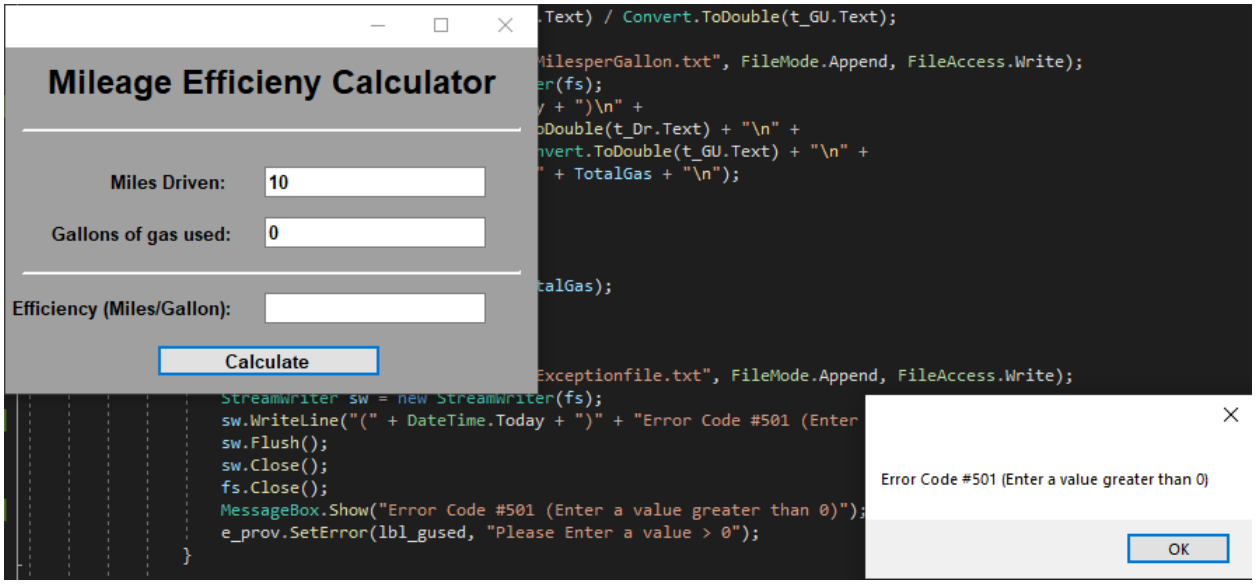
SCREENSHOTS:





```
(2021/04/29 00:00:00)
Miles Driven: 99
Gallons of gas used: 1
Efficiency (Miles/Gallon): 99

(2021/04/29 00:00:00)
Miles Driven: 99
Gallons of gas used: 60
Efficiency (Miles/Gallon): 1,65
```




Mileage Efficieny Calculator
Miles Driven:
10
Gallons of gas used:
0
Efficiency (Miles/Gallon):
Calculate
.Text) / Convert.ToDouble(t_GU.Text);
MilesperGallon.txt", FileMode.Append, FileAccess.Write);
er(fs);
y + ")\n" +
oDouble(t_Dr.Text) + "\n" +
nvert.ToDouble(t_GU.Text) + "\n" +
" + TotalGas + "\n");
talGas);
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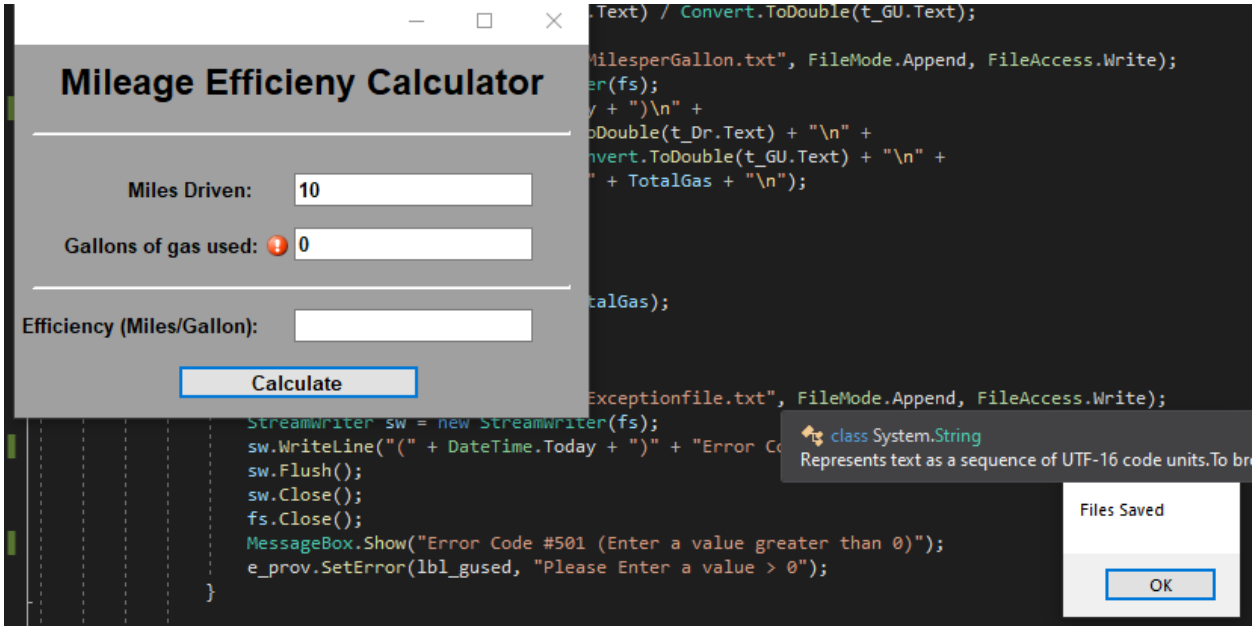
sw.Flush();
sw.Close();
fs.Close();
MessageBox.Show("Error Code #501 (Enter a value greater than 0)");
e_prov.SetError(lbl_gused, "Please Enter a value > 0");
}
Error Code #501 (Enter a value greater than 0)
OK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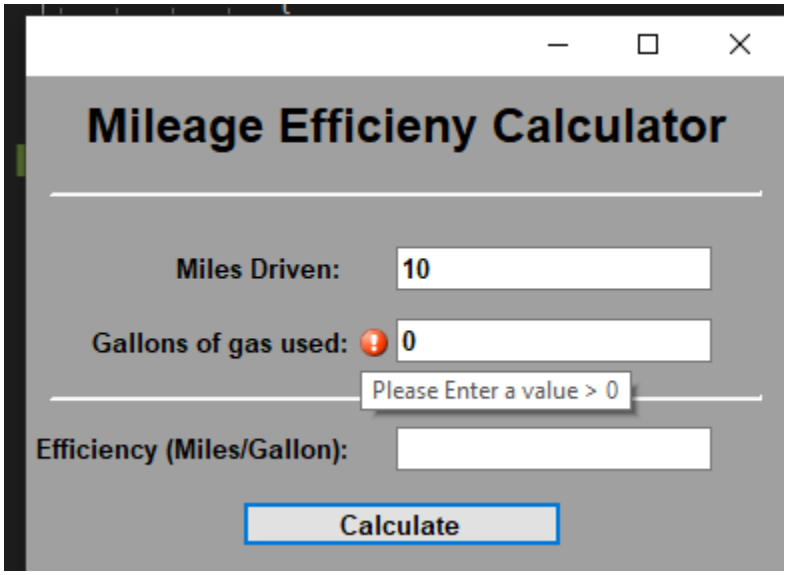
e_prov.SetError(lbl_gused, "Please Enter a value > 0");
}
class System.String
Represents text as a sequence of UTF-16 code units.To br
Files Saved
OK


Mileage Efficieny Calculator
Miles Driven:
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Gallons of gas used:
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Please Enter a value > 0
Efficiency (Miles/Gallon):
Calculate