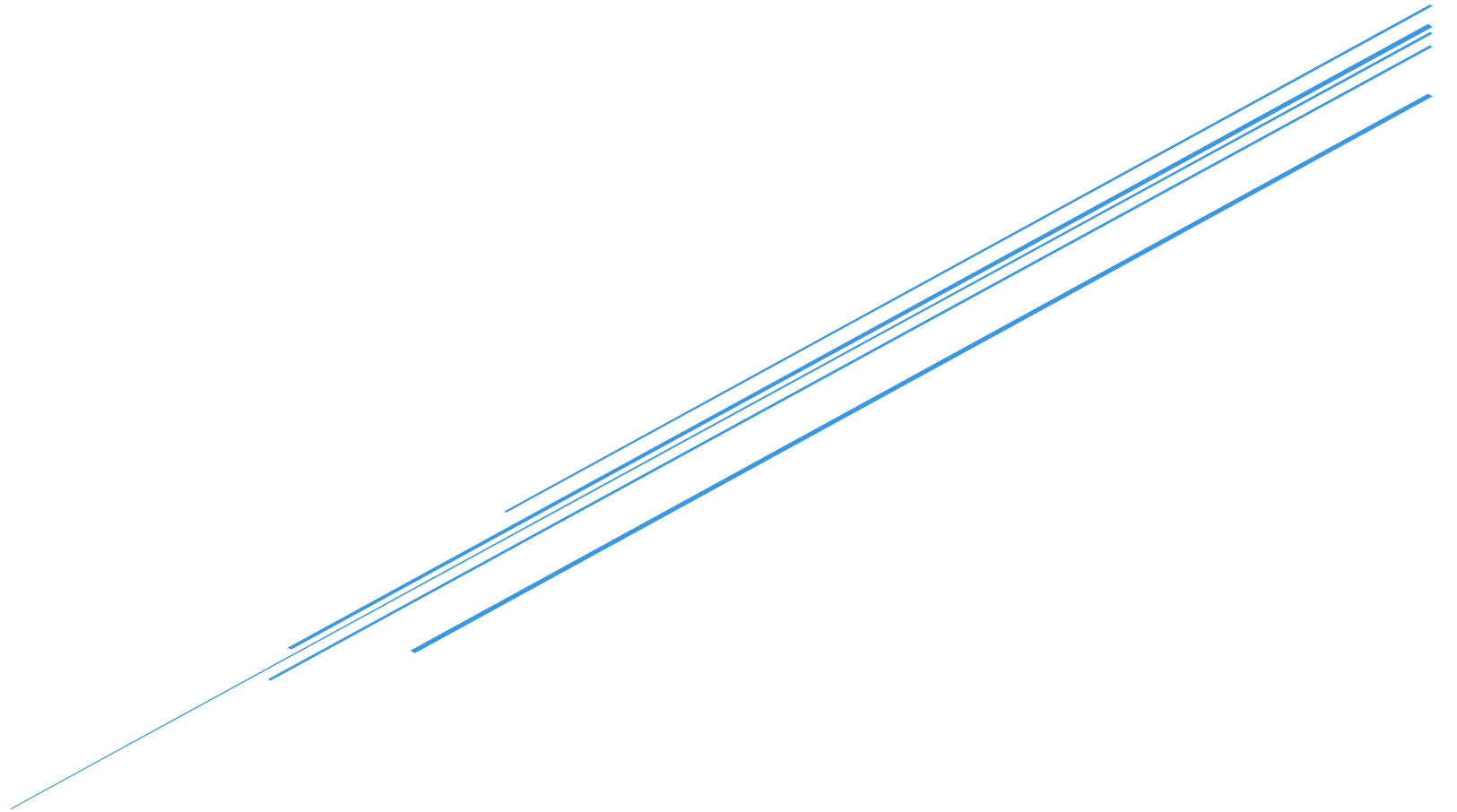


## PRG521 – FORMAL ASSESSMENT 3



**VIDEO LINK OF APPLICATION:**

<https://screenrec.com/share/bV4L2Qnulr>

**FORM:**

The screenshot shows a Windows application window titled 'Form1' with a standard Windows title bar (minimize, maximize, close buttons). The main content area is titled 'Mileage Efficiency Calculator'. It contains three input fields with labels to their left: 'Miles Driven:', 'Gallons of Gas Used:', and 'Efficiency (Miles Per Gallon):'. Below these fields are two buttons: 'Calculate' and 'Exit'. The 'Calculate' button is highlighted with a dashed border and small square handles, indicating it is selected or being edited.

**CODE:**

```
Form1.cs x Form1.cs [Design]
Fa3MilesPerGallon Fa3MilesPerGallon.Form1 btnCalculate_Click(object sender, EventArgs e)
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10 using System.IO;
11
12 namespace Fa3MilesPerGallon
13 {
14     3 references
15     public partial class Form1 : Form
16     {
17         1 reference
18         public Form1()
19         {
20             InitializeComponent();
21         }
22
23         1 reference
24         private void btnExit_Click(object sender, EventArgs e)
25         {
26             Application.Exit();
27         }
28
29         1 reference
30         private void btnCalculate_Click(object sender, EventArgs e)
31         {
32             decimal milesDriven = decimal.Parse(txtMilesDriven.Text);
33             decimal gallonsUsed = decimal.Parse(txtGallonsUsed.Text);
34
35             decimal result = (milesDriven / gallonsUsed);
36
37             string r = result.ToString("0.##");
38             txtResult.Text = r;
39         }
40     }
41 }
100 % No issues found Ln: 77 Ch: 63 SPC CRLF
```

```
Form1.cs x Form1.cs [Design]
Fa3MilesPerGallon Fa3MilesPerGallon.Form1 btnCalculate_Click(object sender, EventArgs e)
28 decimal milesDriven = decimal.Parse(txtMilesDriven.Text);
29 decimal gallonsUsed = decimal.Parse(txtGallonsUsed.Text);
30
31 decimal result = (milesDriven / gallonsUsed);
32
33 string r = result.ToString("0.##");
34 txtResult.Text = r;
35
36 try
37 {
38     string path = @"c:\temp\MilesPerGallon.txt";
39     if (!File.Exists(path))
40     {
41         using (StreamWriter sw = File.CreateText(path))
42         {
43             sw.WriteLine("Miles Driven: " + milesDriven);
44             sw.WriteLine("Gallons Used: " + gallonsUsed);
45             sw.WriteLine("Result: " + r);
46         }
47     }
48
49     using (StreamReader sr = File.OpenText(path))
50     {
51         string s = "";
52         while ((s = sr.ReadLine()) != null)
53         {
54             Console.WriteLine(s);
55         }
56     }
57 }
58 catch (Exception ex)
59 {
60     string path = @"c:\temp\mpgExceptions.txt";
61     if (!File.Exists(path))
62     {
63         using (StreamWriter sw = File.CreateText(path))
64         {
65             sw.WriteLine("Exception: " + ex.Message);
66         }
67     }
68 }
```

```
Form1.cs [Design]
Fa3MilesPerGallon
Fa3MilesPerGallon.Form1
btnCalculate_Click(object sender, EventArgs e)

52 while ((s = sr.ReadLine()) != null)
53 {
54     Console.WriteLine(s);
55 }
56 }
57
58 catch (Exception ex)
59 {
60     string path = @"c:\temp\mpgExceptions.txt";
61     if (!File.Exists(path))
62     {
63         using (StreamWriter sw = File.CreateText(path))
64         {
65             sw.WriteLine("Exception: " + ex.Message);
66         }
67     }
68
69     using (StreamReader sr = File.OpenText(path))
70     {
71         string s = "";
72         while ((s = sr.ReadLine()) != null)
73         {
74             Console.WriteLine(s);
75         }
76     }
77     Console.WriteLine("Exception: " + ex.Message);
78 }
79 finally
80 {
81     Console.WriteLine("Saved to File.");
82 }
83 }
84 }
85 }
86 }
```

100 % No issues found Ln: 77 Ch: 63 SPC CRLF







