

```
1 using Microsoft.VisualBasic.Logging;
2
3 namespace ZebCarRental
4 {
5     public partial class Form1 : Form
6     {
7
8         public Form1()
9         {
10             InitializeComponent();
11         }
12
13         private string carType;
14         const string SEDAN = "Sedan";
15         const string SUV = "SUV";
16         const string COMP = "Compact";
17         private string logFile = "Rental Log File.txt";
18         private string cfgFile = "Configuration.txt";
19         private double sedanRate = 50;
20         private double suvRate = 65;
21         private double compRate = 40;
22         private void btnQuit_Click(object sender, EventArgs e)
23         {
24
25             DialogResult ButtonSelected;
26             ButtonSelected = MessageBox.Show(
27                 "Do you really want to Quit?", "Exiting...",
28                 MessageBoxButtons.YesNo,
29                 MessageBoxIcon.Question);
30             if (ButtonSelected == DialogResult.Yes)
31             {
32                 this.Close();
33             }
34         }
35
36         private void btnClear_Click(object sender, EventArgs e)
37         {
38             txtName.Clear();
39             txtDays.Clear();
40             txtRate.Clear();
41             txtName.Focus();
42             lstOut.Items.Clear();
43             rdoSedan.Checked = true;
44         }
45
46         private void btnCalc_Click(object sender, EventArgs e)
47         {
48             // declare/read variables from txtbx
49             string custName;
```

```
50         int totalDays;
51         double rateDaily, costCar;
52         bool totalDaysValid, rateDailyValid;
53         double carTypeRate = 0;
54         StreamWriter swLog;
55         //      double rateTax, costTax, totalCost ;
56         //  input
57         custName = txtName.Text;
58         totalDaysValid = int.TryParse(txtDays.Text, out totalDays);
59         rateDailyValid = double.TryParse(txtRate.Text, out rateDaily);
60         //processing
61         if (totalDaysValid && rateDailyValid)
62         {
63             switch (carType)
64             {
65                 case SEDAN:
66                     carTypeRate = sedanRate;
67                     break;
68                 case SUV:
69                     carTypeRate = suvRate;
70                     break;
71                 case COMP:
72                     carTypeRate = compRate;
73                     break;
74                 default:
75                     lstOut.Items.Add("This shouldn't happen.");
76                     break;
77             }
78
79             costCar = totalDays * rateDaily;
80             //      costTax = costCar * rateTax;
81             //      totalCost = costCar + costTax;
82             //  output
83             lstOut.Items.Add("Customer Name: " + custName);
84             lstOut.Items.Add("Days entered is: " + totalDays);
85             //      lstOut.Items.Add("Vehicle type selected:");
86             lstOut.Items.Add("Selected vehicle type rate: " +      ↗
87                 rateDaily.ToString("C"));
88             lstOut.Items.Add("Vehicle rental cost: " +      ↗
89                 costCar.ToString("C"));
90             //      lstOut.Items.Add("Tax rate: ");
91             //      lstOut.Items.Add("Tax charge: ");
92             //      lstOut.Items.Add("Cost with tax: ");
93             //opens file so i can append to the end
94             swLog = File.AppendText(logFile);
95             swLog.WriteLine("*****Beginning of Transaction at " +      ↗
96                 DateTime.Now.ToString("G") + "*****");
97             swLog.WriteLine("Customer Name: " + custName);
```

```
196         swLog.WriteLine("Days entered is: " + totalDays);
197         swLog.WriteLine("Selected vehicle type rate: " +
198             rateDaily.ToString("C"));
199         swLog.WriteLine("Vehicle rental cost: " + costCar.ToString
200             ("C"));
201
202         swLog.Close();
203     }
204
205     else
206     {
207         if (!totalDaysValid)
208         {
209             lstOut.Items.Add("Total Days is incorrect.");
210         }
211         if (!rateDailyValid)
212         {
213             lstOut.Items.Add("Daily Rate is incorrect.");
214         }
215     }
216
217 }
218
219
220 private void txtDays_Enter(object sender, EventArgs e)
221 {
222     txtDays.BackColor = Color.Ivory;
223 }
224
225 private void txtDays_Leave(object sender, EventArgs e)
226 {
227     txtDays.BackColor = SystemColors.Window;
228 }
229
230 private void txtRate_Enter(object sender, EventArgs e)
231 {
232     txtRate.BackColor = Color.Ivory;
233 }
234
235 private void txtRate_Leave(object sender, EventArgs e)
236 {
237     txtRate.BackColor = SystemColors.Window;
238 }
239
240 private void txtName_Enter(object sender, EventArgs e)
241 {
242
```

```
143         txtName.BackColor = Color.Ivory;
144     }
145
146     private void txtName_Leave(object sender, EventArgs e)
147     {
148         txtName.BackColor = SystemColors.Window;
149     }
150
151     private void Form1_Load(object sender, EventArgs e)
152     {
153         StreamReader srCFG;
154         rdoSedan.Checked = true;
155         bool fileWasNotFound = true;
156         do
157         {
158             try
159             {
160                 srCFG = File.OpenText(cfgFile);
161                 fileWasNotFound = false;
162                 try
163                 {
164                     sedanRate = double.Parse(srCFG.ReadLine());
165                     suvRate = double.Parse(srCFG.ReadLine());
166                     compRate = double.Parse(srCFG.ReadLine());
167                     srCFG.Close();
168                 }
169                 catch (FormatException ex)
170                 {
171                     lstOut.ForeColor = Color.Red;
172                     lstOut.Items.Add("File data corrupted. Values  
were set to defaults");
173                     lstOut.Items.Add(ex.Message);
174                     sedanRate = 40;
175                     suvRate = 60;
176                     compRate = 50;
177                     srCFG.Close();
178                 }
179             }
180             catch (FileNotFoundException ex)
181             {
182                 MessageBox.Show(ex.Message + " Please enter a new file  
name", "File Not Found");
183                 // OFD.InitialDirectory =
184                 OFD.Filter = "Text Files |*.txt | All Files | *.*";
185                 OFD.Title = "Open Configuration File";
186                 OFD.ShowDialog();
187                 cfgFile = OFD.FileName;
188             }
189         }while (fileWasNotFound);
```

```
190
191     }
192
193     private void rdoSedan_CheckedChanged(object sender, EventArgs e)
194     {
195         if (rdoSedan.Checked)
196         {
197             carType = SEDAN;
198         }
199     }
200
201     private void rdoSUV_CheckedChanged(object sender, EventArgs e)
202     {
203         if (rdoSUV.Checked)
204         {
205             carType = SUV;
206         }
207     }
208
209     private void rdoCompact_CheckedChanged(object sender, EventArgs e)
210     {
211         if(rdoCompact.Checked)
212         {
213             carType = COMP;
214         }
215     }
216 }
217 }
218
```