

```
1 'Tyson Kriner
2 'RCET0265
3 'asg4-6
4 'rentalForm
5 'https://github.com/krintyso/TK-VS-F19
6
7 Option Strict On
8 Option Explicit On
9
10 Public Class rentalForm
11
12     Dim beginOdometer As Decimal
13     Dim endOdometer As Decimal
14     Dim days As Double
15     Dim daysTotal As Double
16     Dim dayCharge As Double
17     Dim Distance As Double
18     Dim totalCost As Double
19     Dim costTotal As Double
20     Dim totalCharge As Double
21     Dim milesTotal As Double
22     Dim milesCharge As Double
23     Dim Distance2 As Double
24     Dim Discount As Double
25     Dim numberOfCustomers As Integer
26     Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles ➤
        calculateButton.Click
27         Dim beginOdometerStr As String
28         Dim endOdometerStr As String
29         Dim daysStr As String
30         beginOdometerStr = beginOdometerTextBox.Text
31         endOdometerStr = endOdometerTextBox.Text
32         daysStr = daysTextBox.Text
33
34         beginOdometer = Decimal.Parse(beginOdometerStr)
35         endOdometer = Decimal.Parse(endOdometerStr)
36         days = Decimal.Parse(daysStr)
37
38
39         InputValidation()
40
41
42
43
44         If beginOdometer > endOdometer Then
45             MessageBox.Show("Beginning odometer cannot be larger than ending ➤
                odometer", "Invalid odometer", MessageBoxButtons.OK)
46             beginOdometerTextBox.SelectAll()
47         ElseIf days < 0 Or days > 45 Then
```

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48     MessageBox.Show("Number of days cannot be less than 0 or greater  
    than 45", "Invalid days", MessageBoxButtons.OK)
49     daysTextBox.SelectAll()
50 End If
51
52 Try
53     dayCharge = days * 15
54     dayChargeLabel.Text = dayCharge.ToString("C")
55     If milesRadioButton.Checked = True Then
56         Distance = endOdometer - beginOdometer
57         milesDrivenLabel.Text = Distance.ToString
58     ElseIf kilometersRadioButton.Checked = True Then
59         Distance = (endOdometer - beginOdometer) * 0.62
60         milesDrivenLabel.Text = Distance.ToString
61     End If
62     If Distance <= 200.0 Then
63         milesCharge = 0.00
64         mileChargeLabel.Text = milesCharge.ToString("C")
65
66     ElseIf Distance >= 500.0 Then
67         milesCharge = (300.0 * 0.12) + ((Distance - 500.0) * 0.1)
68
69         mileChargeLabel.Text = milesCharge.ToString("C")
70     ElseIf Distance <= 500.0 And Distance >= 200.0 Then
71         Distance2 = Distance - 200.0
72         milesCharge = Distance2 * 0.12
73         mileChargeLabel.Text = milesCharge.ToString("C")
74     End If
75     If aaaCheckBox.Checked = True Then
76         Discount = totalCost * 0.05
77         discountLabel.Text = Discount.ToString("C")
78     ElseIf seniorCheckBox.Checked = True Then
79         Discount = totalCost * 0.03
80         discountLabel.Text = Discount.ToString("C")
81     ElseIf aaaCheckBox.Checked = True And seniorCheckBox.Checked = True
    Then
82         Discount = totalCost * 0.08
83         discountLabel.Text = Discount.ToString("C")
84     End If
85     totalCost = milesCharge + dayCharge
86     totalCharge = totalCost - Discount
87     youOweLabel.Text = totalCharge.ToString("C")
88
89
90     discountLabel.BackColor = Color.White
91     milesDrivenLabel.BackColor = Color.White
92     youOweLabel.BackColor = Color.White
93     mileChargeLabel.BackColor = Color.White
94     dayChargeLabel.BackColor = Color.White
```

```
95
96
97     numberOfCustomers += 1
98
99     Catch ex As System.Exception
100         InputValidation()
101
102     End Try
103
104     milesDrivenLabel.Text = Distance.ToString
105     youOweLabel.Text = totalCharge.ToString("C")
106     mileChargeLabel.Text = milesCharge.ToString("C")
107     discountLabel.Text = Discount.ToString("C")
108
109     Totals(Distance, milesCharge, dayCharge, totalCost)
110
111 End Sub
112 Private Sub Totals(ByVal Distance As Double, ByVal milesCharge As Double,  ↗
113     ByVal daycharge As Double, ByVal totalCost As Double)
114     Static daysTotal As Double
115     Static milesTotal As Double
116     Static costTotal As Double
117
118     daysTotal += Distance
119     milesTotal += milesCharge
120     costTotal += totalCost
121
122 End Sub
123 Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles  ↗
124     summaryButton.Click
125     Dim summarylist As New List(Of String)
126     Dim numberOfCustomers As Integer
127
128     summarylist.Add(daysTotal.ToString)
129     summarylist.Add(milesTotal.ToString("C"))
130     summarylist.Add(costTotal.ToString("C"))
131     summarylist.Add(numberOfCustomers.ToString)
132
133
134     MessageBox.Show(summarylist.ToString, "Summary", MessageBoxButtons.OK)
135
136 End Sub
137 Private Sub InputValidation()
138     Dim nameCheck As Integer
139     Dim cityCheck As Integer
140     Dim stateCheck As Integer
141     Dim zipCheck As Integer
```

```
142     Dim beginodCheck As Integer
143     Dim endodCheck As Integer
144     Dim daysCheck As Integer
145     Dim errorList As New List(Of String)
146     Dim sErrors As String = " "
147
148
149
150     nameCheck = VarType(nameTextBox.Text)
151     cityCheck = VarType(cityTextBox.Text)
152     stateCheck = VarType(stateTextBox.Text)
153     zipCheck = VarType(zipCodeTextBox.Text)
154     beginodCheck = VarType(beginOdometerTextBox.Text)
155     endodCheck = VarType(endOdometerTextBox.Text)
156     daysCheck = VarType(daysTextBox.Text)
157
158     If nameCheck <> 8 Then
159         errorList.Add("Invalid name")
160         nameTextBox.SelectAll()
161     End If
162     If cityCheck <> 8 Then
163         errorList.Add("Invalid city")
164         cityTextBox.SelectAll()
165     End If
166     If stateCheck <> 8 Then
167         errorList.Add("Invalid state")
168         stateTextBox.SelectAll()
169     End If
170
171     If zipCheck <> 2 Then
172         errorList.Add("Invalid zip code")
173         zipCodeTextBox.SelectAll()
174     End If
175
176     If beginodCheck <> 14 Then
177         errorList.Add("Invalid Beginning Odometer")
178         beginOdometerTextBox.SelectAll()
179     End If
180     If endodCheck <> 14 Then
181         errorList.Add("Invalid Ending Odometer")
182         endOdometerTextBox.SelectAll()
183     End If
184     If daysCheck <> 2 Then
185         errorList.Add("Invalid Number of days")
186         daysTextBox.SelectAll()
187     End If
188
189     For Each item As String In errorList
190         sErrors &= item & " "
```

```
191         Next
192         Console.WriteLine(sErrors)
193         MessageBox.Show(sErrors, "Errors", MessageBoxButtons.OK)
194     End Sub
195 End Class
196
```