```
1 'Tyson Kriner
 2 'RCET0265
 3 'asg4-6
 4 'rentalForm
 5 'https://github.com/krintyso/TK-VS-F19
 7 Option Strict On
 8 Option Explicit On
10 Public Class rentalForm
11
        Dim beginOdometer As Decimal
12
13
       Dim endOdometer As Decimal
14
       Dim days As Double
15
       Dim distanceTotal As Double
       Dim dayCharge As Double
16
17
       Dim Distance As Double
       Dim totalCost As Double
18
19
       Dim costTotal As Double
20
       Dim totalCharge As Double
21
       Dim milesCharge As Double
22
       Dim Distance2 As Double
23
       Dim Discount As Double
24
       Dim numberofCustomers As Integer
25
       Dim errors As Boolean = False
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
            beginOdometerStr = beginOdometerTextBox.Text
30
31
            endOdometerStr = endOdometerTextBox.Text
32
            daysStr = daysTextBox.Text
33
34
35
            InputValidation()
36
37
            beginOdometer = Decimal.Parse(beginOdometerStr)
38
39
            endOdometer = Decimal.Parse(endOdometerStr)
40
            days = Decimal.Parse(daysStr)
41
42
43
44
45
46
            If beginOdometer > endOdometer Then
47
                MessageBox.Show("Beginning odometer cannot be larger than ending
                  odometer", "Invalid odometer", MessageBoxButtons.OK)
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```
beginOdometerTextBox.SelectAll()
48
            ElseIf days < 0 Or days > 45 Then
49
50
                MessageBox.Show("Number of days cannot be less than 0 or greater
                  than 45", "Invalid days", MessageBoxButtons.OK)
51
                daysTextBox.SelectAll()
52
            End If
53
54
            If errors = False Then
55
                Try
56
57
                    dayCharge = days * 15
                    dayChargeLabel.Text = dayCharge.ToString("C")
58
59
                    If milesRadioButton.Checked = True Then
                        Distance = endOdometer - beginOdometer
60
61
                        milesDrivenLabel.Text = Distance.ToString
                    ElseIf kilometersRadioButton.Checked = True Then
62
63
                        Distance = (endOdometer - beginOdometer) * 0.62
                        milesDrivenLabel.Text = Distance.ToString
64
                    End If
65
                    If Distance <= 200.0 Then</pre>
66
67
                        milesCharge = 0.00
                        mileChargeLabel.Text = milesCharge.ToString( "C")
68
69
                    ElseIf Distance >= 500.0 Then
70
71
                        milesCharge = (300.0 * 0.12) + ((Distance - 500.0) * 0.1)
72
                        mileChargeLabel.Text = milesCharge.ToString( "C")
73
74
                    ElseIf Distance <= 500.0 And Distance >= 200.0 Then
75
                        Distance2 = Distance - 200.0
                        milesCharge = Distance2 * 0.12
76
77
                        mileChargeLabel.Text = milesCharge.ToString( "C")
78
                    End If
79
                    If aaaCheckBox.Checked = True Then
80
                        Discount = totalCost * 0.05
                        discountLabel.Text = Discount.ToString("C")
81
                    ElseIf seniorCheckBox.Checked = True Then
82
                        Discount = totalCost * 0.03
83
84
                        discountLabel.Text = Discount.ToString( "C")
                    ElseIf aaaCheckBox.Checked = True And seniorCheckBox.Checked = >>
85
                      True Then
                        Discount = totalCost * 0.08
86
                        discountLabel.Text = Discount.ToString("C")
87
88
                    End If
89
                    totalCost = milesCharge + dayCharge
90
                    totalCharge = totalCost - Discount
91
                    youOweLabel.Text = totalCharge.ToString("C")
92
93
                    discountLabel.BackColor = Color.White
94
```

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                                                                                       3
 95
                     milesDrivenLabel.BackColor = Color.White
 96
                     youOweLabel.BackColor = Color.White
 97
                     mileChargeLabel.BackColor = Color.White
 98
                     dayChargeLabel.BackColor = Color.White
 99
100
101
102
103
                 Catch ex As FormatException
104
                     InputValidation()
                 Catch ex1 As InvalidCastException
105
                     MessageBox.Show("Invalid Conversion", "Illegal conversion",
106
                       MessageBoxButtons.OK)
                 Catch ex2 As ArithmeticException
107
108
                     MessageBox.Show("Division by zero or variable overflow",
                       "Invalid Calculation", MessageBoxButtons.OK)
109
                 Catch ex3 As OutOfMemoryException
                     MessageBox.Show("Not enough memory", "Out of Memory",
110
                       MessageBoxButtons.OK)
111
                 End Try
             Fnd Tf
112
113
114
             milesDrivenLabel.Text = Distance.ToString
             youOweLabel.Text = totalCharge.ToString("C")
115
116
             mileChargeLabel.Text = milesCharge.ToString("C")
             discountLabel.Text = Discount.ToString("C")
117
118
119
             Totals(Distance, milesCharge, dayCharge, totalCost)
120
121
        End Sub
         Private Sub Totals(ByVal Distance As Double, ByVal milesCharge As Double,
122
           ByVal daycharge As Double, ByVal totalCost As Double)
123
             numberofCustomers += 1
124
125
             distanceTotal += Distance
             costTotal += totalCost
126
127
128
        End Sub
129
         Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles
           summaryButton.Click
             Dim summarylist As New List(Of String)
130
             Dim sSummary As String = " "
131
132
133
             summarylist.Add("Total miles: " & distanceTotal.ToString)
134
             summarylist.Add("Total charges: " & costTotal.ToString("C"))
135
             summarylist.Add("Total customers: " & numberofCustomers.ToString)
136
137
             For Each item As String In summarylist
138
```

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139
                 sSummary &= item & " " & vbNewLine
140
             Next
141
142
143
             MessageBox.Show(sSummary, "Summary", MessageBoxButtons.OK)
144
         End Sub
145
146
         Private Sub InputValidation()
147
             Dim nameCheck As Double
148
             Dim cityCheck As Double
149
             Dim stateCheck As Double
150
             Dim zipCheck As Double
151
             Dim beginodCheck As Double
             Dim endodCheck As Double
152
153
             Dim daysCheck As Double
             Dim errorList As New List(Of String)
154
155
             Dim sErrors As String = " "
156
157
158
159
160
161
             If Double.TryParse(nameTextBox.Text, nameCheck) Then
162
                 errorList.Add("Invalid name")
163
                 nameTextBox.SelectAll()
                 errors = True
164
165
             End If
166
             If Double.TryParse(cityTextBox.Text, cityCheck) Then
167
                 errorList.Add("Invalid city")
168
                 cityTextBox.SelectAll()
169
                 errors = True
170
             End If
171
             If Double.TryParse(stateTextBox.Text, stateCheck) Then
                 errorList.Add("Invalid state")
172
173
                 stateTextBox.SelectAll()
                 errors = True
174
             End If
175
176
177
             If Double.TryParse(zipCodeTextBox.Text, zipCheck) Then
178
             Else
179
                 errorList.Add("Invalid zip code")
                 zipCodeTextBox.SelectAll()
180
                 errors = True
181
             End If
182
183
184
             If Double.TryParse(beginOdometerTextBox.Text, beginodCheck) Then
185
             Else
                 errorList.Add("Invalid Beginning Odometer")
186
                 beginOdometerTextBox.SelectAll()
187
```

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188
                 errors = True
             End If
189
190
             If Double.TryParse(endOdometerTextBox.Text, endodCheck) Then
191
192
                 errorList.Add("Invalid Ending Odometer")
193
194
                 endOdometerTextBox.SelectAll()
195
                 errors = True
196
             End If
             If Double.TryParse(daysTextBox.text, daysCheck) Then
197
198
                 errorList.Add("Invalid Number of days")
199
200
                 daysTextBox.SelectAll()
201
                 errors = True
202
             End If
203
204
             If errors = True Then
205
                 For Each item As String In errorList
                     sErrors &= item & " " & vbNewLine
206
207
208
                 MessageBox.Show(sErrors, "Errors", MessageBoxButtons.OK)
209
             End If
210
        End Sub
211
212
         Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles
213
           exitButton.Click
214
215
             DialogResult = MessageBox.Show("Are you sure you want to exit", "Exit", →
                MessageBoxButtons.YesNo)
216
217
             If DialogResult = DialogResult.Yes Then
218
                 Me.Close()
219
             End If
220
         End Sub
221
222
223
         Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles
           clearButton.Click
             nameTextBox.Text = ""
224
             addressTextBox.Text = ""
225
             cityTextBox.Text = ""
226
             stateTextBox.Text = ""
227
             zipCodeTextBox.Text = ""
228
             beginOdometerTextBox.Text = ""
229
             endOdometerTextBox.Text = ""
230
231
             daysTextBox.Text = ""
             milesDrivenLabel.Text = ""
232
             mileChargeLabel.Text = ""
233
```

```
discountLabel.Text = ""
235
      youOweLabel.Text = ""
236
237
    End Sub
238 End Class
```

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