```
1 'Nathan Carlson
2 'RCET0265
3 'asg4-6
4 'Rental Form
5 'https://github.com/carlnathF19/NDC-VS-F19/tree/master/assignments/Asg4-6
7 Option Strict On
8 Option Explicit On
10 Public Class rentalForm
       Dim cost As Double = 0
11
       Dim miles As Double
12
13
       Dim days As Integer
14
       Dim totalMiles As Double '= 0
15
       Dim totalMileCharge As Double '= 0
       Dim totalDays As Integer '= 0
16
       Dim totalDayCharge As Double '= 0
17
       Dim totalDiscount As Double '= 0
18
19
       Dim totalPaid As Double '= 0
20
       Dim customers As Integer '= 0
21
22
       Dim validValues As Boolean
       'This Sub sets the label text color to a visible color if validation
23
         returns true, to same as
        'background color if false, so previous values aren't visible.
24
25
       Private Sub SetLabelForeColor()
26
           If validValues Then
27
               milesDrivenLabel.ForeColor = Color.White
28
               mileChargeLabel.ForeColor = Color.White
                dayChargeLabel.ForeColor = Color.White
29
30
                discountLabel.ForeColor = Color.White
31
               youOweLabel.ForeColor = Color.White
32
           Else
33
               milesDrivenLabel.ForeColor = Color.Black
               mileChargeLabel.ForeColor = Color.Black
34
35
               dayChargeLabel.ForeColor = Color.Black
               discountLabel.ForeColor = Color.Black
36
37
               youOweLabel.ForeColor = Color.Black
           End If
38
39
40
       End Sub
41
        'This subroutine checks to see if Discounts apply and modify the global
         variable cost.
42
        'Cost and miles each update a global variable passed to the summary
         subroutine.
43
       Private Sub checkDiscount()
44
           Dim discountMultiplier As Double = 0
45
           Dim discountAmount As Double = 0
           If aaaCheckBox.Checked Then
46
```

```
48
            Fnd Tf
49
            If seniorCheckBox.Checked Then
                discountMultiplier += 0.03
50
51
52
            discountAmount = discountMultiplier * cost
53
            'Adds to totals summary
54
            totalDiscount += discountAmount
55
            discountLabel.Text = discountAmount.ToString("C")
            cost = (1 - discountMultiplier) * cost
56
57
        End Sub
        'This subroutine checks each value, starting with the last in the Tab Index 🤛
58
           and ending with the
        'first, if any returns false, then the last one to return false takes
59
                                                                                      P
         focus. Also uses tries
        'to see if values parse correctly.
60
61
        Private Sub ValidateFields()
            Dim summaryLocal As String
62
            Dim zipCodeValid As Boolean = True
63
64
            summaryLocal = ""
65
            validValues = False
66
67
           Try
                days = Integer.Parse(daysTextBox.Text)
68
69
                If days > 45 Or days < 1 Then
70
                    MessageBox.Show("Please enter valid number of days, (0 to 45)")
71
                    daysTextBox.Select()
72
                End If
73
            Catch ex As Exception
74
               MessageBox. Show("Please enter valid number of days, (0 to 45)")
75
                daysTextBox.Select()
76
            End Try
77
78
            Try
                miles = Double.Parse(endOdometerTextBox.Text) - Double.Parse
79
                  (beginOdometerTextBox.Text)
80
            Catch ex As Exception
81
               MessageBox.Show("Please enter valid odometer values")
82
                beginOdometerTextBox.Select()
83
            End Try
84
85
            Try
                Integer.Parse(zipCodeTextBox.Text)
86
87
            Catch ex As Exception
                zipCodeValid = False
88
89
            End Try
90
            If zipCodeTextBox.Text.Length() <> 5 Or zipCodeValid = False Then
91
                summaryLocal = "Please enter a 5 digit zip code." & vbNewLine &
92
```

2

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...uments\GitHub\NDC-VS-F19\assignments\Asg4-6\rentalForm.vb
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3
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```
summaryLocal
 93
                 zipCodeTextBox.Select()
 94
             End If
 95
 96
             If stateTextBox.Text.Length() <> 2 Then
 97
                 summaryLocal = "Please enter a state abbreviation." & vbNewLine &
                   summaryLocal
 98
                 stateTextBox.Select()
 99
             End If
100
101
             If cityTextBox.Text.Length() = 0 Then
                 summaryLocal = "Please enter a City." & vbNewLine & summaryLocal
102
103
                 cityTextBox.Select()
             End If
104
105
             If addressTextBox.Text.Length() = 0 Then
106
                 summaryLocal = "Please enter an Address." & vbNewLine &
107
                   summaryLocal
108
                 addressTextBox.Select()
109
             End If
110
             If nameTextBox.Text.Length() = 0 Then
111
112
                 summaryLocal = "Please enter a Name." & vbNewLine & summaryLocal
113
                 nameTextBox.Select()
114
             End If
115
             If summaryLocal <> "" Then
116
117
                 MessageBox.Show(summaryLocal)
118
             Else validValues = True
             End If
119
         End Sub
120
         'This subroutine exits if a yes no message box receives a yes click
121
122
         Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles
                                                                                       P
           exitButton.Click
123
             If MessageBox.Show("Do you want to exit?", "Exit?",
                                                                                       P
               MessageBoxButtons.YesNo)
                 = Windows.Forms.DialogResult.Yes Then
124
125
                 Me.Close()
             End If
126
127
128
         End Sub
129
         Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles →
130
            calculateButton.Click
131
             Dim dayCharge As Integer
             ValidateFields()
132
133
             SetLabelForeColor()
134
             If validValues Then
135
```

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...uments\GitHub\NDC-VS-F19\assignments\Asg4-6\rentalForm.vb
                                                                                      4
136
                If miles > 0 Then
137
138
                Else
                     MessageBox.Show("Please enter valid odometer values, end
139
                       reading must be " &
140
                                     "greater than beginning reading.")
141
                     beginOdometerTextBox.Select()
142
                End If
143
                 'If kilometers is checked then the same variable is used to convert >
144
                    to miles, the reading in km is stored
                 'in the miles button and converted via *= .62 to miles
145
                 If kilometersRadioButton.Checked = True Then
146
                     miles *= 0.62
147
148
                End If
149
150
                milesDrivenLabel.Text = Convert.ToString(miles)
                 'Adds the total miles to the summary sub through global variable.
151
                totalMiles += miles
152
153
                 If miles >= 201 And miles <= 500 Then
154
                     cost = (miles - 200) * 0.12
155
156
                 ElseIf miles > 500 Then
                     'If miles > 500 then 300 of those miles (500-200) are at
157
                       the .12 price
158
                     cost = (miles - 500) * 0.1 + (300 * 0.12)
159
                Fnd Tf
160
161
                totalMileCharge += cost
162
163
                 'cost += days*15 did not work, so a local variable is declared, and ➤
                    then passed
164
                 'to cost. Programattically, cost += should work, but it didn't?
165
                Dim costLocal As Double = cost
166
167
                mileChargeLabel.Text = cost.ToString("C")
168
169
                 dayCharge = days * 15
170
                 'Adds to totals summary
171
                totalDays += days
172
                totalDayCharge += dayCharge
                 costLocal = cost + dayCharge
173
174
                 cost = costLocal
                 dayChargeLabel.Text = dayCharge.ToString("C")
175
176
                 checkDiscount()
177
178
                 'Adds to totals summary
```

totalPaid += cost

customers += 1

179

180

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...uments\GitHub\NDC-VS-F19\assignments\Asg4-6\rentalForm.vb
                                                                                       5
181
                youOweLabel.Text = cost.ToString("C")
182
                 Console.WriteLine(cost)
183
                 summaryButton.Enabled = True
             End If
184
185
186
        End Sub
187
        Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles
188
           summaryButton.Click
             Dim totalsSummary As String
189
             totalsSummary = "Distance Driven = " & totalMiles & vbNewLine &
190
                 "Mileage Charge = " & totalMileCharge.ToString("C") & vbNewLine &
191
                 "Total Days Rented = " & totalDays & vbNewLine &
192
                 "Total Day Charge = " & totalDayCharge.ToString("C") & vbNewLine &
193
                 "Total Discounts = " & totalDiscount.ToString("C") & vbNewLine &
194
                 "Total Paid = " & totalPaid.ToString("C") & vbNewLine &
195
                 "Customers = " & customers
196
             MessageBox.Show(totalsSummary)
197
198
199
        End Sub
200
        Private Sub RentalForm_Load(sender As Object, e As EventArgs) Handles
201
          MyBase.Load
             summaryButton.Enabled = False
202
203
        End Sub
204
        Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles
205
           clearButton.Click
206
             nameTextBox.Clear()
207
             addressTextBox.Clear()
208
             cityTextBox.Clear()
             stateTextBox.Clear()
209
210
             zipCodeTextBox.Clear()
             beginOdometerTextBox.Clear()
211
212
             endOdometerTextBox.Clear()
             daysTextBox.Clear()
213
        End Sub
214
215
```

216 End Class

217