```vb
1  'Nathan Comstock
2  'RCET0265
3  'Spring 2020
4  'CarRental
5  'https://github.com/comsnath/NC-VS-S20
6
7
8  Public Class CarRental
9
10     'Class Variables, storing summary information
11     Dim customerNum As Integer
12     Dim finalDistance As Double
13     Dim sumCost As Double
14
15     Private Sub Form1_Load(sender As Object, e As EventArgs) Handles Me.Load
16         'Disable textboxes and default Miles Radio Button
17         DistanceTextBox.Enabled = False
18         MileageChargeTextBox.Enabled = False
19         DayChargeTextBox.Enabled = False
20         MinusDiscountTextBox.Enabled = False
21         TotalTextBox.Enabled = False
22         MilesRadioButton.Checked = True
23
24         BeginningOdometerReadingTextBox.Text = "0"
25         BeginningOdometerReadingTextBox.Enabled = False
26         SummaryButton.Enabled = False
27         ClearButton.Enabled = True
28     End Sub
29
30     Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles  ⮠
         CalculateButton.Click
31         'Validate All Data
32         Dim errorLog As String
33
34         If CustomerNameTextBox.Text = "" Then
35             errorLog &= "Please enter a valid Name." & vbNewLine
36             CustomerNameTextBox.Text = ""
37             CustomerNameTextBox.Focus()
38         End If
39
40         If AddressTextBox.Text = "" Then
41             errorLog &= "Please enter a valid Address." & vbNewLine
42             AddressTextBox.Text = ""
43             AddressTextBox.Focus()
44         End If
45
46         If CityTextBox.Text = "" Then
47             errorLog &= "Please enter a valid City." & vbNewLine
48             CityTextBox.Text = ""
49             CityTextBox.Focus()
50         End If
51
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52              If StateTextBox.Text = "" Then
53                  errorLog &= "Please enter a valid State." & vbNewLine
54                  StateTextBox.Text = ""
55                  StateTextBox.Focus()
56              End If
57
58              If ZipCodeTextBox.Text = "" Then
59                  errorLog &= "Please enter a valid Zip Code." & vbNewLine
60                  ZipCodeTextBox.Text = ""
61                  ZipCodeTextBox.Focus()
62              End If
63
64              Try
65                  If EndingOdometerReadingTextBox.Text = "" Then
66                      errorLog &= "Please enter a valid Ending Number." & vbNewLine
67                      EndingOdometerReadingTextBox.Text = ""
68                      EndingOdometerReadingTextBox.Focus()
69                  ElseIf CInt(EndingOdometerReadingTextBox.Text) <= 0 Then
70                      errorLog &= "Please enter a valid Ending Number." & vbNewLine
71                      EndingOdometerReadingTextBox.Text = ""
72                      EndingOdometerReadingTextBox.Focus()
73                  End If
74              Catch ex As Exception
75                  errorLog &= "Please enter a valid Ending Number." & vbNewLine
76                  EndingOdometerReadingTextBox.Text = ""
77                  EndingOdometerReadingTextBox.Focus()
78              End Try
79
80              Try
81                  If CInt(NumberOfDaysTextBox.Text) <= 0 Then
82                      errorLog &= "Please enter a valid Days Number." & vbNewLine
83                      NumberOfDaysTextBox.Text = ""
84                      NumberOfDaysTextBox.Focus()
85                  ElseIf CInt(NumberOfDaysTextBox.Text) >= 45 Then
86                      errorLog &= "Please enter a valid Days Number." & vbNewLine
87                      NumberOfDaysTextBox.Text = ""
88                      NumberOfDaysTextBox.Focus()
89                  End If
90              Catch ex As Exception
91                  errorLog &= "Please enter a valid Days Number." & vbNewLine
92                  NumberOfDaysTextBox.Text = ""
93                  NumberOfDaysTextBox.Focus()
94              End Try
95
96              'Display Errors or Proceed
97              If errorLog <> "" Then
98                  MsgBox(errorLog)
99              Else
100                 Calculation()
101             End If
102
103     End Sub
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104
105        Sub Calculation()
106            Dim distanceSum As Double
107            Dim mileageCost As Double
108            Dim dayCost As Integer
109            Dim aaaDiscount As Double
110            Dim seniorDiscount As Double
111            Dim totalCost As Double
112            Dim finalCost As Double
113
114            'Show Distance
115            If MilesRadioButton.Checked = True Then
116                DistanceLabel.Text = "Distance (mi)"
117                DistanceTextBox.Text = EndingOdometerReadingTextBox.Text
118            ElseIf KilometersRadioButton.Checked = True Then
119                '1 Mile is approximatly equal to 1.61 Kilometer
120                DistanceLabel.Text = "Distance (km)"
121                DistanceTextBox.Text = (CDbl(EndingOdometerReadingTextBox.Text) *    ⮐
                       1.61)
122            End If
123
124            'Save Distance Amount
125            distanceSum = CDbl(DistanceTextBox.Text)
126
127            'Calculate Mileage Charge
128            If CInt(EndingOdometerReadingTextBox.Text) < 200 Then
129                mileageCost = 0
130                MileageChargeTextBox.Text = FormatCurrency(0)
131            ElseIf CInt(EndingOdometerReadingTextBox.Text) < 500 Then
132                mileageCost = (CDbl(EndingOdometerReadingTextBox.Text) - 200) * 0.12
133                MileageChargeTextBox.Text = FormatCurrency(mileageCost)
134            ElseIf CInt(EndingOdometerReadingTextBox.Text) > 500 Then
135                mileageCost = ((CDbl(EndingOdometerReadingTextBox.Text) - 500) * 0.1) ⮐
                       + 35.88
136                MileageChargeTextBox.Text = FormatCurrency(mileageCost)
137            End If
138
139            'Day Charge
140            dayCost = CInt(NumberOfDaysTextBox.Text) * 15
141            DayChargeTextBox.Text = FormatCurrency(dayCost)
142
143            'Create Total Variable
144            totalCost = mileageCost + dayCost
145
146            'Check for Discounts
147            If AAACheckBox.Checked Then
148                aaaDiscount = totalCost * 0.05
149            Else
150                aaaDiscount = 0
151            End If
152
153            If SeniorCheckBox.Checked Then
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154                seniorDiscount = totalCost * 0.03
155            Else
156                seniorDiscount = 0
157            End If
158
159            'Final Calculation and Display
160            finalCost = totalCost - (seniorDiscount + aaaDiscount)
161            MinusDiscountTextBox.Text = FormatCurrency(aaaDiscount + seniorDiscount)
162            TotalTextBox.Text = FormatCurrency(finalCost)
163
164            'Disable Calculate Button
165            CalculateButton.Enabled = False
166            ClearButton.Enabled = True
167
168            'Log to Summary
169            SummaryButton.Enabled = True
170            Summary(distanceSum, finalCost)
171        End Sub
172        Sub Summary(distanceSum As Double, finalCost As Double)
173            'Add one number to customer count.
174            customerNum = customerNum + 1
175
176            'Add distance to total.
177            finalDistance = finalDistance + distanceSum
178
179            'Add cost to total.
180            sumCost = sumCost + finalCost
181        End Sub
182
183        Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles        ⮧
            ExitButton.Click
184            'Exit Message Prompt
185            Dim Msg, Style, Title, Response
186            Msg = "Are you sure you want to exit?"    ' Define message.
187            Style = vbYesNo + vbDefaultButton2     ' Define buttons.
188            Title = "Exit Prompt"    ' Define title.
189
190            Response = MsgBox(Msg, Style, Title)
191            If Response = vbYes Then     ' User chose Yes.
192                Me.Close()
193            End If
194        End Sub
195
196        Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles       ⮧
            ClearButton.Click
197            'Reset All
198            CustomerNameTextBox.Text = ""
199            AddressTextBox.Text = ""
200            CityTextBox.Text = ""
201            StateTextBox.Text = ""
202            ZipCodeTextBox.Text = ""
203            EndingOdometerReadingTextBox.Text = ""
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204             NumberOfDaysTextBox.Text = ""
205
206             DistanceTextBox.Text = ""
207             MileageChargeTextBox.Text = ""
208             DayChargeTextBox.Text = ""
209             MinusDiscountTextBox.Text = ""
210             TotalTextBox.Text = ""
211
212             AAACheckBox.Checked = False
213             SeniorCheckBox.Checked = False
214
215             MilesRadioButton.Checked = True
216             KilometersRadioButton.Checked = False
217
218             CalculateButton.Enabled = True
219             ClearButton.Enabled = False
220         End Sub
221
222         Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles   ⮰
              SummaryButton.Click
223             ClearButton.PerformClick()
224             MsgBox("Total Customers: " & customerNum & vbNewLine & "Total Distance: ⮰
                 (mi) " & finalDistance & vbNewLine & "Total Cost: " & FormatCurrency  ⮰
                 (sumCost))
225         End Sub
226 End Class
227
```