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1  'Logan Garcia
2  'RCET0265
3  'Car Rental
4
5  Option Explicit On
6  Option Strict On
7  Option Compare Binary
8  Public Class RentalForm
9      Dim numofCustomer As Integer
10     Dim totalDistance As Double
11     Dim totalCost As Double
12     Private Sub CarRentalForm_Load(sender As Object, e As EventArgs) Handles 
13         MyBase.Load
14         ResetAll()
15         SummaryButton.Enabled = False
16     End Sub
17     Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles 
18         ClearButton.Click
19         ResetAll()
20     End Sub
21     Sub ResetAll()
22         'Reset the displayed data
23         NameTextBox.Text = ""
24         AddressTextBox.Text = ""
25         CityTextBox.Text = ""
26         StateTextBox.Text = ""
27         BeginOdometerTextBox.Text = ""
28         EndOdometerTextBox.Text = ""
29         DaysTextBox.Text = ""
30         DistanceDrivenTextbox.Text = ""
31         MileageChargeTextbox.Text = ""
32         DayChargeTextbox.Text = ""
33         MinusDiscountTextBox.Text = ""
34         YouOweTextBox.Text = ""
35         MilesRadioButton.Checked = True
36         AAAcheckbox.Checked = False
37         Seniorcheckbox.Checked = False
38         ClearButton.Enabled = False
39         CalculateButton.Enabled = True
40
41     End Sub
42
43     Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles 
44         CalculateButton.Click
45         'Calculate the charge and display for the customers
46         Dim testValid As Boolean
47         testValid = True
48
49         'Validate the info and calculate
50         If NameTextBox.Text = "" Then
```



```
50         MsgBox("Please enter the customer's name.")
51         NameTextBox.Focus()
52         testValid = False
53     ElseIf AddressTextBox.Text = "" Then
54         MsgBox("Please enter the customer's address.")
55         AddressTextBox.Focus()
56         testValid = False
57     ElseIf CityTextBox.Text = "" Then
58         MsgBox("Please enter the city that the customer lives in.")
59         CityTextBox.Focus()
60         testValid = False
61     ElseIf StateTextBox.Text = "" Then
62         MsgBox("Please enter the state that the customer lives in.")
63         StateTextBox.Focus()
64         testValid = False
65     ElseIf ZipCodeTextBox.Text = "" Then
66         MsgBox("Please enter the state that the customer lives in.")
67         StateTextBox.Focus()
68         testValid = False
69     ElseIf BeginOdometerTextBox.Text = "" Then
70         MsgBox("Please enter the Beginning Odometer Reading.")
71         BeginOdometerTextBox.Focus()
72         testValid = False
73     ElseIf EndOdometerTextBox.Text = "" Then
74         MsgBox("Please enter the Ending Odometer Reading.")
75         EndOdometerTextBox.Focus()
76         testValid = False
77     ElseIf DaysTextBox.Text = "" Then
78         MsgBox("Please enter the Number of Days.")
79         DaysTextBox.Focus()
80         testValid = False
81     Else
82         Try
83             If CDec(BeginOdometerTextBox.Text) > CDec
84                 (EndOdometerTextBox.Text) Then
85                 MsgBox("The Beginning Odometer Reading has to be smaller than
86                     the Ending Odometer Reading.")
87                 BeginOdometerTextBox.Text = ""
88                 EndOdometerTextBox.Text = ""
89                 BeginOdometerTextBox.Focus()
90                 testValid = False
91             Else
92                 testValid = True
93             End If
94         Catch ex As Exception
95
96             MsgBox("Please enter a number in the Odometer Reading.")
97             BeginOdometerTextBox.Text = ""
98             EndOdometerTextBox.Text = ""
99             BeginOdometerTextBox.Focus()
```

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100         testValid = False
101
102     End Try
103
104     Try
105         If CDec(DaysTextBox.Text) < 1 Then
106             MsgBox("Alert: The Number of Days must be greater than 0!")
107             DaysTextBox.Focus()
108             testValid = False
109         ElseIf CDec(DaysTextBox.Text) > 45 Then
110             MsgBox("Alert: The Number of Days cannot be greater than 45.")
111             DaysTextBox.Focus()
112             testValid = False
113         Else
114             testValid = True
115         End If
116     Catch ex As Exception
117
118         MsgBox("Please enter a number in the Number of Days.")
119         DaysTextBox.Text = ""
120         DaysTextBox.Focus()
121         testValid = False
122
123     End Try
124 End If
125
126 Dim mileage As Decimal
127 Dim dayCharge As Decimal
128 Dim totalCharge As Decimal
129 Dim totalDiscount As Decimal
130
131 If testValid = True Then
132     If MilesRadioButton.Checked = True Then
133
134         mileage = CDec(EndOdometerTextBox.Text) - CDec
135             (BeginOdometerTextBox.Text)
136         DistanceDrivenTextbox.Text = Math.Round(mileage, 2).ToString
137         totalDistance += Math.Round(mileage, 2)
138         MileageChargeTextbox.Text = "$" & Math.Round(MileageCharge
139             (mileage), 2).ToString
140         dayCharge = CDec(DaysTextBox.Text) * 15D
141         DayChargeTextbox.Text = "$" & Math.Round(dayCharge, 2).ToString
142         totalCharge = CDec(MileageChargeTextbox.Text) + CDec
143             (DayChargeTextbox.Text)
144
145         If Seniorcheckbox.Checked = True And AAAcheckbox.Checked = True
146             Then
147             totalDiscount = totalCharge * 0.08D
148         ElseIf Seniorcheckbox.Checked = True And AAAcheckbox.Checked =
149             False Then
150             totalDiscount = totalCharge * 0.03D

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146         ElseIf Seniorcheckbox.Checked = False And AAAcheckbox.Checked =  
            True Then  
147             totalDiscount = totalCharge * 0.05D  
148         Else  
149             totalDiscount = 0.00D  
150         End If  
151  
152         MinusDiscountTextbox.Text = "$" & Math.Round(totalDiscount,  
2).ToString  
153         YouOweTextbox.Text = "$" & Math.Round((totalCharge -  
totalDiscount), 2).ToString  
154         totalCost += Math.Round((totalCharge - totalDiscount), 2)  
155         SummaryButton.Enabled = True  
156         numofCustomer += 1  
157  
158     ElseIf KilometersRadioButton.Checked = True Then  
159  
160         mileage = (CDec(EndOdometerTextBox.Text) - CDec  
            (BeginOdometerTextBox.Text)) / 1.609D  
161         DistanceDrivenTextbox.Text = Math.Round(mileage, 2).ToString  
162         totalDistance += Math.Round(mileage, 2)  
163         MileageChargeTextbox.Text = "$" & Math.Round(MileageCharge  
            (mileage), 2).ToString  
164         dayCharge = CDec(DaysTextBox.Text) * 15D  
165         DayChargeTextbox.Text = "$" & Math.Round(dayCharge, 2).ToString  
166         totalCharge = CDec(MileageChargeTextBox.Text) + CDec  
            (DayChargeTextbox.Text)  
167  
168         If Seniorcheckbox.Checked = True And AAAcheckbox.Checked = True  
            Then  
169             totalDiscount = totalCharge * 0.08D  
170         ElseIf SeniorCheckBox.Checked = True And AAAcheckbox.Checked =  
            False Then  
171             totalDiscount = totalCharge * 0.03D  
172         ElseIf SeniorCheckBox.Checked = False And AAAcheckbox.Checked =  
            True Then  
173             totalDiscount = totalCharge * 0.05D  
174         Else  
175             totalDiscount = 0.00D  
176         End If  
177  
178         MinusDiscountTextbox.Text = "$" & Math.Round(totalDiscount,  
2).ToString  
179         YouOweTextbox.Text = "$" & Math.Round(totalCharge -  
totalDiscount, 2).ToString  
180         totalCost += Math.Round(totalCharge - totalDiscount, 2)  
181         SummaryButton.Enabled = True  
182         numofCustomer += 1  
183  
184     Else  
185         MsgBox("Error, please select either Miles or Kilometers.")  
186     End If
```

```
187
188         CalculateButton.Enabled = False
189         ClearButton.Enabled = True
190
191     Else
192     End If
193
194 End Sub
195
196 Function MileageCharge(ByRef miles As Decimal) As Decimal
197     'Calculate mileage charge
198     Dim mileCharge As Decimal
199
200     Select Case miles
201     Case <= 200
202         mileCharge = miles * 0
203     Case > 500
204         mileCharge = (miles - 500) * 0.1D + 36
205     Case Else
206         mileCharge = (miles - 200) * 0.12D
207     End Select
208     Return mileCharge
209
210 End Function
211
212 Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles 
213     ExitButton.Click
214     'Push Exit Button to close the form
215     Me.Close()
216 End Sub
217
218 Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles 
219     SummaryButton.Click
220     MessageBox.Show("Total Customers: " & Str(numofCustomer) & vbNewLine &
221         "Total Miles Driven: " & Str(totalDistance) & " mi" & vbNewLine &
222         "Total Charge: $" & Str(totalCost), "Detailed Summary")
223 End Sub
224 End Class
```