```vb
1   Option Explicit On
2   Option Strict On
3   'Jemika Smith
4   'RCET0265
5   'Spring2020
6   'Car Rental Program
7   'https://github.com/smitjemi/JKS-VS-S20
8   Public Class CarRentalForm
9       Dim totalCustomers As Integer
10      Dim totalDistance As Decimal
11      Dim totalCharge As Decimal
12      Private Sub RentalForm_Load(sender As Object, e As EventArgs) Handles Me.Load
13          SummaryButton.Enabled = False
14      End Sub
15      Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles  ⏎
          CalculateButton.Click
16          Dim ValidateCheckBox As Boolean = False
17          Dim userMessage As String = "" 'Use a single message box to display any  ⏎
              improper input
18          Dim begOd As Decimal
19          Dim beg1 As Boolean = False
20          Dim endOd As Decimal
21          Dim end1 As Boolean = False
22          Dim numberofDays As Integer
23          Dim numberDays As Boolean = False
24          Dim daysCharged As Decimal
25          Dim miles As Decimal
26          Dim mileageTotal As Decimal
27          Dim YouOwe As Decimal
28          'Include input validation for all text boxes
29          If NameTextBox.Text = "" Then
30              userMessage = "Please enter a Name" & vbNewLine
31          End If
32          If AddressTextBox.Text = "" Then
33              userMessage &= "Please enter a Address" & vbNewLine
34          End If
35          If CityTextBox.Text = "" Then
36              userMessage &= "Please enter a City" & vbNewLine
37          End If
38          If StateTextBox.Text = "" Then
39              userMessage &= "Please enter a State" & vbNewLine
40          End If
41          If ZipTextBox.Text = "" Then
42              userMessage &= "Please enter a Zip Code" & vbNewLine
43          End If
44          If BegOdTextBox.Text = "" Then
45              userMessage &= "Please enter a Beginning Odometer number" & vbNewLine
46          End If
47          If EndOdTextBox.Text = "" Then
48              userMessage &= "Please enter a Ending Odometer number" & vbNewLine
49          End If
50          If DaysTextBox.Text = "" Then
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51                    userMessage &= "Please enter a Number of Days" & vbNewLine
52            End If
53
54            If BegOdTextBox.Text <> "" Or EndOdTextBox.Text <> "" Or DaysTextBox.Text ⇝
                  <> "" Then
55                Try 'Validate the odometer readings
56                    begOd = CDec(BegOdTextBox.Text)
57                    beg1 = True
58                Catch ex As Exception
59                    userMessage &= "Please enter a Valid Beginning Number" &        ⇝
                        vbNewLine
60                End Try
61                Try 'Validate the odometer readings
62                    endOd = CDec(EndOdTextBox.Text)
63                    end1 = True
64                Catch ex As Exception
65                    userMessage &= "Please enter a Valid Ending Number" & vbNewLine
66                End Try
67                Try 'Validate number of days
68                    numberofDays = CInt(DaysTextBox.Text)
69                    If numberofDays > 0 And numberofDays < 46 Then 'Days must be     ⇝
                        greater than zero.Days cannot be greater than 45.
70                        'GOOD!
71                        numberDays = True
72                    Else
73                        userMessage &= "Please enter a number between 0 and 45"
74                    End If
75                Catch ex As Exception
76                    userMessage &= "Please enter a Valid Number of Days"
77                End Try
78                If beg1 = True And end1 = True Then
79                    If begOd < endOd Then
80                        'ValidateCheckBox = True
81                    Else
82                        userMessage &= "Beginning Odometer must be less than End     ⇝
                          Odometer"
83                    End If
84                End If
85            End If
86            'Remove the invalid data from any affected text box
87            If userMessage <> "" Then
88                MsgBox(userMessage)
89                If beg1 = False Then
90                    BegOdTextBox.Text = ""
91                End If
92                If end1 = False Then
93                    EndOdTextBox.Text = ""
94                End If
95                If numberofDays = False Then
96                    DaysTextBox.Text = ""
97                End If
98            Else
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 99                 ValidateCheckBox = True
100             End If
101             'Set the focus to the first affected text box in the tab order
102             If numberofDays = False Then
103                 DaysTextBox.Select()
104             End If
105             If end1 = False Then
106                 EndOdTextBox.Select()
107             End If
108             If beg1 = False Then
109                 BegOdTextBox.Select()
110             End If
111             If ZipTextBox.Text = "" Then
112                 ZipTextBox.Select()
113             End If
114             If StateTextBox.Text = "" Then
115                 StateTextBox.Select()
116             End If
117             If CityTextBox.Text = "" Then
118                 CityTextBox.Select()
119             End If
120             If AddressTextBox.Text = "" Then
121                 AddressTextBox.Select()
122             End If
123             If NameTextBox.Text = "" Then
124                 NameTextBox.Select()
125             End If
126             'Do not display the message box until the calculate button is clicked
127             If ValidateCheckBox = True Then
128                 daysCharged = (numberofDays * 15D) 'Daily Charge $15 per day
129                 DayCharTextBox.Text = daysCharged.ToString("C") 'Customer's total     ⮑
                       daily charge format as currency
130                 If MilesRadioButton.Checked = True Then 'The radio buttons determine  ⮑
                       if odometer value is miles/kilo
131                     miles = endOd - begOd
132                 Else '1 Kilometer equals .62 Miles.
133                     miles = (endOd - begOd) * 0.62D 'convert kilo to miles
134                 End If
135                 MilesDrTextBox.Text = miles.ToString
136                 Select Case miles
137                     Case <= 200 'First 200 miles driven are always free
138                         mileageTotal = miles * 0
139                     Case > 500 'Miles greater than 500 charged at .10 cents per mile.
140                         mileageTotal += (miles - 500D) * 0.1D + 36D
141                     Case Else 'Miles after free 200 is charged at .12 cents per mile.
142                         mileageTotal = (miles - 200D) * 0.12D
143                 End Select
144                 MileageTextBox.Text = mileageTotal.ToString("C") 'Customer's total    ⮑
                       mileage charge format as currency
145
146                 Dim totalCharges As Decimal
147                 totalCharges = CDec(DayCharTextBox.Text) + CDec(MileageTextBox.Text)
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148
149                 Dim totalDiscount As Decimal
150                 If AAACheckBox.Checked = True Then 'AAA members receive a 5% discount
151                     totalDiscount = totalCharges * 0.05D
152                 End If
153                 If SeniorCheckBox.Checked = True Then 'senior citizens get a 3%
                        discount.
154                     totalDiscount += totalCharges * 0.03D
155                 End If
156                 MinusTextBox.Text = totalDiscount
157                 MinusTextBox.Text = totalDiscount.ToString("C") 'Customer's total
                        discount applied format as currency
158
159
160                 YouOwe = CDec(totalCharges - totalDiscount)
161                 OweTextBox.Text = YouOwe.ToString("C") 'Customer's total charges
                        format as currency
162
163                 SummaryButton.Enabled = True
164
165                 totalCustomers += 1 'Total number of customers for the day
166                 totalDistance += CDec(MilesDrTextBox.Text) 'Total distance driven in
                        miles for the day
167                 totalCharge += CDec(OweTextBox.Text) 'Total charges for the day
168            End If
169        End Sub
170        Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles
           ClearButton.Click
171            'Clear all input text boxes
172            NameTextBox.Text = ""
173            AddressTextBox.Text = ""
174            CityTextBox.Text = ""
175            StateTextBox.Text = ""
176            ZipTextBox.Text = ""
177            BegOdTextBox.Text = ""
178            EndOdTextBox.Text = ""
179            DaysTextBox.Text = ""
180            'Clear all output text boxes
181            MilesDrTextBox.Text = ""
182            DayCharTextBox.Text = ""
183            MileageTextBox.Text = ""
184            MinusTextBox.Text = ""
185            OweTextBox.Text = ""
186            'Clear discount check boxes
187            AAACheckBox.Checked = False
188            SeniorCheckBox.Checked = False
189            'Select the miles radio button
190            MilesRadioButton.Select()
191            'Do not clear the summary totals
192        End Sub
193        Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles
           SummaryButton.Click
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194            Dim stringVariable As String
195            stringVariable = "Total Customers:        " & totalCustomers.ToString &
                  vbNewLine & 'Total number of customers
196               "Total Distance:          " & totalDistance.ToString & vbNewLine &
                     'Total distance driven in miles
197               "Total Charge:               " & totalCharge.ToString("C") 'Total
                     charges
198          MessageBox.Show(stringVariable, "Detailed Summary") 'Display the
                following summary using a message box
199       End Sub
200       Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles
            ExitButton.Click
201          'MsgBox to exit form
202          Dim Result As DialogResult
203          'Prompt the user with Yes/No buttons in a message box. Ask if they are
                sure they want to exit.
204          Result = MessageBox.Show("Are you sure you want to exit?", "Exit
                Confirmation", MessageBoxButtons.YesNo, MessageBoxIcon.Warning,
                MessageBoxDefaultButton.Button2)
205          If Result = DialogResult.Yes Then 'Do not exit unless the user clicks the
                yes button.
206              Me.Close()
207          End If
208       End Sub
209  End Class
210
```