```vb
'Doug Cluff
'RCET0265
'Asg4-1
'Math Contest Form
'https://github.com/clufdoug/DACVSF19/tree/master/Assignments/Asg4-6

Option Strict On
Option Explicit On

Public Class rentalForm

    Dim beginOdometer As Double
    Dim endOdometer As Double
    Dim custName As String
    Dim custAddress As String
    Dim custCity As String
    Dim custState As String
    Dim custZip As Integer
    Dim days As Integer
    Dim totalcustomers As Integer
    Dim totalmiles As Double
    Dim totalsales As Double
    Private Sub rentalForm_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        summaryButton.Enabled = False

    End Sub

    Private Sub calculateButton_Click(sender As Object, e As EventArgs) Handles calculateButton.Click
        validateInput()

    End Sub

    Private Sub clearButton_Click(sender As Object, e As EventArgs) Handles clearButton.Click
        nameTextBox.Clear()
        addressTextBox.Clear()
        cityTextBox.Clear()
        stateTextBox.Clear()
        zipCodeTextBox.Clear()
        beginOdometerTextBox.Clear()
        endOdometerTextBox.Clear()
        daysTextBox.Clear()
        milesDrivenLabel.Text = ""
        mileChargeLabel.Text = ""
        dayChargeLabel.Text = ""
        discountLabel.Text = ""
        youOweLabel.Text = ""
        milesRadioButton.Enabled = True
        kilometersRadioButton.Enabled = False
        aaaCheckBox.Enabled = False
```

```
50          seniorCheckBox.Enabled = False
51      End Sub
52
53      Private Sub validateInput()
54          If nameTextBox.Text = "" Then
55              MessageBox.Show("Customer name may not be blank", "Input Error")
56              nameTextBox.Focus()
57          End If
58          If addressTextBox.Text = "" Then
59              MessageBox.Show("Address may not be blank", "Input Error")
60              addressTextBox.Focus()
61          End If
62          If cityTextBox.Text = "" Then
63              MessageBox.Show("City may not be blank", "Input Error")
64              cityTextBox.Focus()
65          End If
66          If stateTextBox.Text = "" Then
67              MessageBox.Show("State may not be blank", "Input Error")
68          End If
69          Try
70              Integer.Parse(zipCodeTextBox.Text)
71          Catch ex As Exception
72              MessageBox.Show("Zip code must be a number", "Input Error")
73              zipCodeTextBox.Clear()
74              zipCodeTextBox.Focus()
75          End Try
76          Try
77              Integer.Parse(beginOdometerTextBox.Text)
78          Catch ex As Exception
79              MessageBox.Show("Beginning Odometer Reading must be a number", "Input ↵
                    Error")
80              beginOdometerTextBox.Clear()
81              beginOdometerTextBox.Focus()
82          End Try
83          Try
84              Integer.Parse(endOdometerTextBox.Text)
85          Catch ex As Exception
86              MessageBox.Show("Ending Odometer Reading must be a number", "Input    ↵
                  Error")
87              endOdometerTextBox.Clear()
88              endOdometerTextBox.Focus()
89          End Try
90          Try
91              Integer.Parse(daysTextBox.Text)
92          Catch ex As Exception
93              MessageBox.Show("Number of Days must be a number", "Input Error")
94              daysTextBox.Clear()
95              daysTextBox.Focus()
96          End Try
97
98          milesDriven()
99          mileCharge()
```

```
100         dayCharge()
101         discount()
102         youOwe()
103         total()
104         summaryButton.Enabled = True
105 
106     End Sub
107     Private Sub summaryButton_Click(sender As Object, e As EventArgs) Handles
          summaryButton.Click
108         MessageBox.Show("Daily Totals" & vbNewLine & "Customers = " &
            totalcustomers & vbNewLine _
109                         & "Miles = " & totalmiles & vbNewLine _
110                         & "Sales = " & totalsales.ToString("C"))
111     End Sub
112 
113     Private Sub exitButton_Click(sender As Object, e As EventArgs) Handles
          exitButton.Click
114         Me.Close()
115 
116     End Sub
117 
118     Private Function milesDriven() As Double
119         Try
120             beginOdometer = Double.Parse(beginOdometerTextBox.Text)
121         Catch ex As Exception
122             MessageBox.Show("Zip code must be a number", "Input Error")
123             beginOdometerTextBox.Clear()
124             beginOdometerTextBox.Focus()
125         End Try
126         Try
127             endOdometer = Double.Parse(endOdometerTextBox.Text)
128         Catch ex As Exception
129             MessageBox.Show("Zip code must be a number", "Input Error")
130             endOdometerTextBox.Clear()
131             endOdometerTextBox.Focus()
132         End Try
133         If kilometersRadioButton.Checked = True Then
134             milesDriven = ((endOdometer - beginOdometer) * 0.62)
135         ElseIf milesRadioButton.Checked = True Then
136             milesDriven = endOdometer - beginOdometer
137         End If
138         milesDriven = endOdometer - beginOdometer
139         milesDrivenLabel.Text = milesDriven.ToString
140         'Console.WriteLine(milesDriven)
141     End Function
142 
143     Private Function mileCharge() As Double
144 
145         If milesDriven() <= 200 Then
146             mileCharge = 0
147         ElseIf milesDriven() > 200 And milesDriven() <= 500 Then
148             mileCharge = (milesDriven() - 200) * 0.12
```

```
149         ElseIf milesDriven() > 500 Then
150             mileCharge = ((milesDriven() - 500) * 0.1) + (300 * 0.12)
151         End If
152         mileChargeLabel.Text = mileCharge.ToString("C")
153         'Console.WriteLine(mileCharge)
154 
155     End Function
156 
157     Private Function dayCharge() As Double
158         If Integer.Parse(daysTextBox.Text) = 0 Or Integer.Parse(daysTextBox.Text)
               > 45 Then
159             MessageBox.Show("Days must be greater than 0 and less than 45",
                  "Input Error")
160             daysTextBox.Clear()
161             daysTextBox.Focus()
162         Else
163             dayCharge = Integer.Parse(daysTextBox.Text) * 15.0
164         End If
165         dayChargeLabel.Text = dayCharge.ToString("C")
166         Console.WriteLine(dayCharge)
167     End Function
168 
169     Private Function discount() As Double
170         discount = 0
171 
172         If aaaCheckBox.Checked = True Then
173             discount = (0.05 * (mileCharge() + dayCharge()))
174         End If
175         If seniorCheckBox.Checked = True Then
176             discount += (0.03 * (mileCharge() + dayCharge()))
177         End If
178 
179         discountLabel.Text = discount.ToString("C")
180         Console.WriteLine(discount)
181     End Function
182 
183     Private Function youOwe() As Double
184         youOwe = mileCharge() + dayCharge() - discount()
185         youOweLabel.Text = youOwe.ToString("C")
186         Console.WriteLine(youOwe)
187     End Function
188 
189     Private Sub total()
190         totalcustomers += 1
191         totalmiles += milesDriven()
192         totalsales += youOwe()
193 
194     End Sub
195 
196 
197 End Class
198 
```