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1 'Nathan Carlson
2 'RCET0265
3 'asg3-3
4 'Inventory Calculator
5 'https://github.com/carlnathF19/NDC-VS-F19/tree/master/assignments/ASG3-3/
   Inventory_Calculator
6
7 Option Explicit On
8 Option Strict On
9 Public Class Inventory_Calculator
10     Dim startInv As Integer
11     Dim endInv As Integer
12     'costOfGoods, avgInv, and turnover must be declared as double. Currency is
       a double unit; avgInv, and turnover
13     'are results of division. CostofGoods being static allows another Sub to
       change textbox format.
14     Dim costOfGoods As Double
15     Dim avgInv As Double
16     Dim turnover As Double
17     Dim errorMessage As String
18
19     'When calculate is clicked a series of codes execute to calculate avgInv
       and turnover while catching
20     'invalid user input.
21     Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles
       calculateButton.Click
22         'sets errorMessage to empty
23         errorMessage = ""
24
25         'attempts to parse cost of goods text into a double, if it fails it
       puts a message with desired text
26         'in the box, displays an errormessage and adds the bottommost line of
       the variable passed to the
27         'messagebox. Also selects the bottommost box if input is invalid
28     Try
29         costOfGoods = Double.Parse(costOfGoodsTextBox.Text)
30         costOfGoodsTextBox.Text = costOfGoods.ToString("C")
31     Catch ex As Exception
32
33
34         costOfGoodsTextBox.Text = "Please enter currency with no $"
35         costOfGoodsTextBox.Select()
36         errorMessage = "Please enter currency with no $" & vbNewLine &
       errorMessage
37
38     End Try
39     'each of these has the same function for their individual textbox as
       described in the previous comment
40     'but selects the current box, by running the bottommost box first, and
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        the code execution from top
41    'to bottom this results in the focus on the highest box with an error.
42    Try
43        endInv = Integer.Parse(endingInventoryTextBox.Text)
44    Catch ex As Exception
45        endingInventoryTextBox.Text = "Please enter only Whole Numbers in Ending Inventory"
46        endingInventoryTextBox.Select()
47        errorMessage = "Please enter only Whole Numbers" & vbNewLine & errorMessage
48    End Try
49    'each of these has the same function for their individual textbox as described in the previous comment
50    Try
51        startInv = Integer.Parse(beginningInventoryTextBox.Text)
52    Catch ex As Exception
53        beginningInventoryTextBox.Text = "Please enter only Whole Numbers in Beginning Inventory"
54        beginningInventoryTextBox.Select()
55        errorMessage = "Please enter only Whole Numbers" & vbNewLine & errorMessage
56    End Try
57
58    'if errorMessage is not empty, a messagebox is shown from the concatenated Catch statements.
59    If errorMessage <> "" Then
60        MessageBox.Show(errorMessage)
61
62    End If
63
64    'If errorMessage is empty then no Try's failed. The calculations are then performed, and output written.
65    'This ensures that if invalid data is entered calculations will not output invalid data based on the data
66    'it does receive.
67    If errorMessage = "" Then
68        avgInv = Convert.ToDouble(startInv + endInv)
69        avgInv /= 2
70        turnover = costOfGoods / avgInv
71        avgInventoryTextBox.Text = avgInv.ToString("C")
72        turnoverTextBox.Text = turnover.ToString("F1")
73    End If
74    End Sub
75
76    'This sub clears all fields and values for a new user calculation
77    Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles clearButton.Click
78        beginningInventoryTextBox.Text = ""
79        endingInventoryTextBox.Text = ""
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80     costOfGoodsTextBox.Text = ""
81     avgInventoryTextBox.Text = ""
82     turnoverTextBox.Text = ""
83     startInv = 0
84     endInv = 0
85     costOfGoods = 0
86     avgInv = 0
87     turnover = 0
88 End Sub
89
90 'Closes the form
91 Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles ExitButton.Click
92     Me.Close()
93 End Sub
94
95 'The next 3 subs check to see if the textbox text has been set in a
96 'previous Catch, if it has when the user
97 'clicks on the textbox, the textbox will clear for new data. If the data
98 'was valid though, the content of the
99 'textbox is unchanged.
100 Private Sub beginningInventoryTextBox_MouseDown(sender As Object, e As
101     MouseEventArgs) Handles beginningInventoryTextBox.MouseDown
102     If (beginningInventoryTextBox.Text = "Please enter only Whole Numbers
103         in Beginning Inventory") Then
104         beginningInventoryTextBox.Text = ""
105     End If
106 End Sub
107
108 Private Sub endingInventoryTextBox_MouseDown(sender As Object, e As
109     MouseEventArgs) Handles endingInventoryTextBox.MouseDown
110     If (endingInventoryTextBox.Text = "Please enter only Whole Numbers in
111         Ending Inventory") Then
112         endingInventoryTextBox.Text = ""
113     End If
114 End Sub
115
116 Private Sub CostOfGoodsTextBox_MouseDown(sender As Object, e As EventArgs)
117     Handles costOfGoodsTextBox.MouseDown
118     If (costOfGoodsTextBox.Text = "Please enter currency with no $") Then
119         costOfGoodsTextBox.Text = ""
120     End If
121 End Sub
122
123 End Class
```