

```
1 'Tyler Lish
2 'RCET0265
3 'Asg7-1
4 'https://github.com/lishtyl2/TL-VS-F19/tree/master/Assignments
5 Option Strict On
6 Option Explicit On
7 Public Class StocksForm
8     Dim summary As New List(Of String)
9     Dim stopSummary As New List(Of String)
10    Private Sub clearData()
11        StockSymbolTextBox.Clear()
12        MondayTextBox.Clear()
13        TuesdayTextBox.Clear()
14        WednesdayTextBox.Clear()
15    End Sub
16    Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs) ➤
17        Handles ExitToolStripMenuItem.Click
18        Me.Close()
19    End Sub
20    Private Sub ClearToolStripMenuItem_Click(sender As Object, e As EventArgs) ➤
21        Handles ClearToolStripMenuItem.Click
22        clearData()
23        StockList.Items.Clear()
24    End Sub
25    Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles ➤
26        CalculateButton.Click
27        calculate()
28    End Sub
29    Private Sub CalculateToolStripMenuItem_Click(sender As Object, e As ➤
30        EventArgs) Handles CalculateToolStripMenuItem.Click
31        calculate()
32    End Sub
33    Private Function ColumnHeaders(firstColumn As String, secondColumn As ➤
34        String, thirdColumn As String, fourthColumn As String) As String
35        'This will place "|" and spaces to help make the columns look better.
36        Dim columnWidth As Integer = 20
37        firstColumn = "|" & firstColumn
38        secondColumn = "|" & secondColumn
39        thirdColumn = "|" & thirdColumn
40        fourthColumn = "|" & fourthColumn
41        ' this will allign the columns.
42        Return firstColumn.PadRight(columnWidth) & secondColumn.PadRight ➤
43            (columnWidth) &
44            thirdColumn.PadRight(columnWidth) & fourthColumn.PadRight ➤
45            (columnWidth)
46    End Function
47    Private Sub Calculate()
48        'Validates code and returns messagebox with any fields that are ➤
49        invalid, selecting the first in the tab order.
```

```
42     Dim errorMessage As String = ""
43     Dim firstDayChange As Double
44     Dim secondDayChange As Double
45     Dim decision As String
46     Static buy As Integer = 0
47     Static sell As Integer = 0
48     Static hold As Integer = 0
49
50     Try
51         Double.Parse(WednesdayTextBox.Text)
52     Catch ex As Exception
53         errorMessage = "Please enter a valid Price in Wednesday." &
54             vbNewLine & errorMessage
55         WednesdayTextBox.Select()
56     End Try
57     Try
58         Double.Parse(TuesdayTextBox.Text)
59     Catch ex As Exception
60         errorMessage = "Please enter a valid Price in Tuesday." & vbNewLine
61         & errorMessage
62         TuesdayTextBox.Select()
63     End Try
64     Try
65         Double.Parse(MondayTextBox.Text)
66     Catch ex As Exception
67         errorMessage = "Please enter a valid Price in Monday." & vbNewLine
68         & errorMessage
69         MondayTextBox.Select()
70     End Try
71     If StockSymbolTextBox.Text = "" Then
72         errorMessage = "Please enter the stock code you would like to
73             calculate." & vbNewLine & errorMessage
74         StockSymbolTextBox.Select()
75     End If
76
77     If errorMessage <> "" Then
78         MessageBox.Show(errorMessage)
79     End If
80
81     If errorMessage = "" Then
82         firstDayChange = Double.Parse(TuesdayTextBox.Text) - Double.Parse
83             (MondayTextBox.Text)
84         secondDayChange = Double.Parse(WednesdayTextBox.Text) -
85             Double.Parse(TuesdayTextBox.Text)
86         decision = CStr(HoldBuySell(firstDayChange, secondDayChange))
87
88         Select Case decision
89             Case "Buy"
90                 summary.Insert(0, ColumnHeaders(StockSymbolTextBox.Text,
```

```

...cuments\GitHub\TL-VS-F19\Assignments\Asg7-1\StocksForm.vb 3
    firstDayChange.ToString("C"), secondDayChange.ToString
    ("C"), decision))
85    StockList.Items.Insert(0, ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
    secondDayChange.ToString("C"), decision))
86    buy += 1
87
88
89    Case "Sell"
90    summary.Insert(buy, ColumnHeaders(StockSymbolTextBox.Text,
    firstDayChange.ToString("C"), secondDayChange.ToString
    ("C"), decision))
91    StockList.Items.Insert(buy, ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
    secondDayChange.ToString("C"), decision))
92    sell += 1
93    Case "Hold"
94    stopSummary.Add(ColumnHeaders(StockSymbolTextBox.Text,
    firstDayChange.ToString("C"), secondDayChange.ToString
    ("C"), decision))
95    StockList.Items.Insert((buy + sell), ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
    secondDayChange.ToString("C"), decision))
96    End Select
97
98    clearData()
99    End If
100 End Sub
101 Private Function HoldBuySell(tuesdayChange As Double, wednesdayChange As
    Double) As Object
102     Dim result As String
103     If tuesdayChange > 0 And wednesdayChange > tuesdayChange Then
104         result = "Buy"
105     ElseIf tuesdayChange < 0 And wednesdayChange < tuesdayChange Then
106         result = "Sell"
107     Else
108         result = "Hold"
109     End If
110
111     Return result
112 End Function
113 End Class
114

```