

```
1 Option Strict On
2 Option Explicit On
3
4 Public Class StocksForm
5     Dim summary As New List(Of String)
6     Dim stopSummary As New List(Of String)
7     Private Sub clearData()
8         StockSymbolTextBox.Clear()
9         MondayTextBox.Clear()
10        TuesdayTextBox.Clear()
11        WednesdayTextBox.Clear()
12    End Sub
13    Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs) ➤
14        Handles ExitToolStripMenuItem.Click
15        Me.Close()
16    End Sub
17    Private Sub ClearToolStripMenuItem_Click(sender As Object, e As EventArgs) ➤
18        Handles ClearToolStripMenuItem.Click
19        clearData()
20        StockList.Items.Clear()
21    End Sub
22    Private Sub CalculateButton_Click(sender As Object, e As EventArgs) Handles ➤
23        CalculateButton.Click
24        calculate()
25    End Sub
26
27    Private Sub CalculateToolStripMenuItem_Click(sender As Object, e As ➤
28        EventArgs) Handles CalculateToolStripMenuItem.Click
29        calculate()
30    End Sub
31
32    Private Function ColumnHeaders(firstColumn As String, secondColumn As ➤
33        String, thirdColumn As String, fourthColumn As String) As String
34        'This will place "|" and spaces to help make the columns look better.
35        Dim columnWidth As Integer = 20
36        firstColumn = "|" & firstColumn
37        secondColumn = "|" & secondColumn
38        thirdColumn = "|" & thirdColumn
39        fourthColumn = "|" & fourthColumn
40        ' this will align the columns.
41        Return firstColumn.PadRight(columnWidth) & secondColumn.PadRight ➤
42            (columnWidth) &
43            thirdColumn.PadRight(columnWidth) & fourthColumn.PadRight ➤
44            (columnWidth)
45
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.
50        Dim errorMessage As String = ""
```

```
42     Dim firstDayChange As Double
43     Dim secondDayChange As Double
44     Dim decision As String
45     Static buy As Integer = 0
46     Static sell As Integer = 0
47     Static hold As Integer = 0
48
49     Try
50         Double.Parse(WednesdayTextBox.Text)
51     Catch ex As Exception
52         errorMessage = "Please enter a valid Price in Wednesday." &
53             vbNewLine & errorMessage
54         WednesdayTextBox.Select()
55     End Try
56     Try
57         Double.Parse(TuesdayTextBox.Text)
58     Catch ex As Exception
59         errorMessage = "Please enter a valid Price in Tuesday." & vbNewLine
60         & errorMessage
61         TuesdayTextBox.Select()
62     End Try
63     Try
64         Double.Parse(MondayTextBox.Text)
65     Catch ex As Exception
66         errorMessage = "Please enter a valid Price in Monday." & vbNewLine
67         & errorMessage
68         MondayTextBox.Select()
69     End Try
70     If StockSymbolTextBox.Text = "" Then
71         errorMessage = "Please enter the stock code you would like to
72             calculate." & vbNewLine & errorMessage
73         StockSymbolTextBox.Select()
74     End If
75
76     If errorMessage <> "" Then
77         MessageBox.Show(errorMessage)
78     End If
79
80     If errorMessage = "" Then
81         firstDayChange = Double.Parse(TuesdayTextBox.Text) - Double.Parse
82             (MondayTextBox.Text)
83         secondDayChange = Double.Parse(WednesdayTextBox.Text) -
84             Double.Parse(TuesdayTextBox.Text)
85         decision = CStr(HoldBuySell(firstDayChange, secondDayChange))
86
87         Select Case decision
88             Case "Buy"
89                 summary.Insert(0, ColumnHeaders(StockSymbolTextBox.Text,
90                     firstDayChange.ToString("C"), secondDayChange.ToString
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    ("C"), decision))
84      StockList.Items.Insert(0, ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
85      secondDayChange.ToString("C"), decision))
    buy += 1
86
87
88      Case "Sell"
89      summary.Insert(buy, ColumnHeaders(StockSymbolTextBox.Text,
    firstDayChange.ToString("C"), secondDayChange.ToString
90      ("C"), decision))
    StockList.Items.Insert(buy, ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
    secondDayChange.ToString("C"), decision))
91      sell += 1
92      Case "Hold"
93      stopSummary.Add(ColumnHeaders(StockSymbolTextBox.Text,
    firstDayChange.ToString("C"), secondDayChange.ToString
    ("C"), decision))
94      StockList.Items.Insert((buy + sell), ColumnHeaders
    (StockSymbolTextBox.Text, firstDayChange.ToString("C"),
    secondDayChange.ToString("C"), decision))
95      End Select
96
97      clearData()
98      End If
99      End Sub
100
101
102      Private Function HoldBuySell(tuesdayChange As Double, wednesdayChange As
    Double) As Object
103      Dim result As String
104      If tuesdayChange > 0 And wednesdayChange > tuesdayChange Then
105      result = "Buy"
106      ElseIf tuesdayChange < 0 And wednesdayChange < tuesdayChange Then
107      result = "Sell"
108      Else
109      result = "Hold"
110      End If
111
112      Return result
113      End Function
114
115      End Class
116
```