```
1 Option Strict On
2 Option Explicit On
5 Public Class Form1
       Dim errors As Boolean = False
7
8
       Dim stockNameDecisionSummary As String = ""
9
       Private Sub CalculateToolStripMenuItem_Click(sender As Object, e As
10
         EventArgs) Handles CalculateToolStripMenuItem.Click
           Dim mondayPrice As Double
11
12
           Dim tuesdayPrice As Double
13
           Dim wednesdayPrice As Double
14
           Dim stockName As String
           Dim stockDecision As String
15
16
           Dim blankStringList As New List(Of String)
17
18
19
           InputValidation(mondayPrice, tuesdayPrice, wednesdayPrice, stockName)
           stockName = nameTextBox.Text
20
21
           If errors = False Then
22
23
               mondayPrice = Double.Parse(monPriceTextBox.Text)
24
               tuesdayPrice = Double.Parse(tuesPriceTextBox.Text)
25
               wednesdayPrice = Double.Parse(wedPriceTextBox.Text)
                buySellHoldTextbox.Text = Decision(mondayPrice, tuesdayPrice,
26
                  wednesdayPrice)
                stockDecision = buySellHoldTextbox.Text
27
28
                stockNameDecisionSummary += "Stock name: " & stockName & " " &
29
                  "Decision: " & stockDecision & vbNewLine
30
31
           End If
32
33
34
35
       End Sub
36
37
       Private Function Decision(ByVal mondayPrice As Double, ByVal tuesdayPrice
         As Double, ByVal wednesdayPrice As Double) As String
           Dim result As String
38
39
           Dim n1 As Double
40
           Dim n2 As Double
           Dim n3 As Double
41
42
           n1 = mondavPrice
43
           n2 = tuesdayPrice
44
           n3 = wednesdayPrice
           Dim choice As Boolean
45
```

```
46
47
48
            choice = True
49
50
           result = ""
51
52
53
           If n1 < n2 And n2 - n1 < n3 - n2 Then
               result = "Buy"
54
            ElseIf n1 > n2 And n1 - n2 < n2 - n3 Then
55
                result = "Sell"
56
            ElseIf choice = True Then
57
               result = "Hold"
58
59
           End If
60
61
            Return result
62
        End Function
       Private Sub InputValidation(mondayPrice As Double, tuesdayPrice As Double, →
63
         wednesdayPrice As Double, stockName As String)
            Dim errorList As New List(Of String)
64
           Dim sErrors As String = ""
65
66
67
            If nameTextBox.Text = "" Then
                errorList.Add("Stock name cannot be empty")
68
69
                errors = True
70
           Fnd Tf
71
72
            If monPriceTextBox.Text = "" Then
73
74
                errorList.Add("Monday price cannot be blank")
75
                errors = True
76
            ElseIf Double.TryParse(monPriceTextBox.Text, mondayPrice) Then
77
            Else errorList.Add("Invalid Monday Price")
78
                errors = True
79
           End If
80
81
82
            If tuesPriceTextBox.Text = "" Then
                errorList.Add("Tuesday price cannot be blank")
83
84
                errors = True
85
            ElseIf Double.TryParse(tuesPriceTextBox.Text, tuesdayPrice) Then
86
87
            Else errorList.Add("Invalid Tuesday Price")
88
                errors = True
89
90
           End If
91
92
            If wedPriceTextBox.Text = "" Then
                errorList.Add("Wednesday price cannot be empty")
93
```

```
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```

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3
```

```
94
                 errors = True
95
 96
             ElseIf Double.TryParse(wedPriceTextBox.Text, wednesdayPrice) Then
 97
             Else errorList.Add("Invalid Wednesday Price")
 98
                 errors = True
99
            End If
100
101
102
            If errors = True Then
                 For Each item As String In errorList
103
                     sErrors &= item & " " & vbNewLine
104
                 Next
105
106
                 MessageBox.Show(sErrors, "Errors", MessageBoxButtons.OK)
107
             End If
108
        End Sub
109
        Private Sub ClearToolStripMenuItem_Click(sender As Object, e As EventArgs) →
          Handles ClearToolStripMenuItem.Click
             nameTextBox.Text = ""
110
             monPriceTextBox.Text = ""
111
             tuesPriceTextBox.Text = ""
112
            wedPriceTextBox.Text = ""
113
             buySellHoldTextbox.Text = ""
114
115
        End Sub
116
117
        Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs)
          Handles ExitToolStripMenuItem.Click
118
             Me.Close()
119
        End Sub
120
121
        Private Sub SummaryToolStripMenuItem Click(sender As Object, e As
           EventArgs) Handles SummaryToolStripMenuItem.Click
122
             MessageBox.Show(stockNameDecisionSummary, "Summary",
                                                                                      P
               MessageBoxButtons.OK)
123
         End Sub
124 End Class
125
```