'Unit 2 VBA Homework - The VBA of Wall Street

Sub Stock\_Market\_Analysis()

' Declaration of Initial Variables And Setting of Default Variables

Dim Ticker\_name As String

Dim First\_open\_price As Double

Dim Last\_close\_price As Double

Dim Yearly\_change As Double

Dim Percentage\_change As Double

Dim Last\_price As Double

Last\_price = 2

Dim Ticker\_total\_volume As Double

Ticker\_total\_volume = 0

Dim Summary\_table\_row As Long

Summary\_table\_row = 2

Dim LastRow As Long

Dim LastRow1 As Long

Dim Rng As Range

Dim Rng2 As Range

Dim ws As Worksheet

For Each ws In Worksheets

' Column Headers / Data Field Labels

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = " Yearly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Total Stock Volume"

ws.Range("O2").Value = "Greatest % Increase"

ws.Range("O3").Value = "Greatest % Decrease"

ws.Range("O4").Value = "Greatest Total Volume"

ws.Range("P1").Value = "Ticker"

ws.Range("Q1").Value = "Value"

'Determine the last row of the sheet

LastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row

' Ticker\_total\_volume = Ticker\_total\_volume + ws.Cells(i, 7).Value

For i = 2 To LastRow

If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then

Ticker\_name = ws.Cells(i, 1).Value

Ticker\_total\_volume = Ticker\_total\_volume + ws.Cells(i, 7).Value

'Print the Ticker name to the Summary Table

ws.Range("I" & Summary\_table\_row).Value = Ticker\_name

'Print the Ticker 's yearly price change to the Summary Table

First\_open\_price = ws.Range("c" & Last\_price).Value

Last\_close\_price = ws.Range("F" & i).Value

Yearly\_change = Last\_close\_price - First\_open\_price

ws.Range("J" & Summary\_table\_row).Value = Yearly\_change

'Print the Ticker 's yearly percentage change to the Summary Table

If First\_open\_price <> 0 Then

Percentage\_change = Yearly\_change / First\_open\_price

ws.Range("k" & Summary\_table\_row).Value = Percentage\_change

End If

If Yearly\_change >= 0 Then

ws.Range("j" & Summary\_table\_row).Interior.ColorIndex = 4

Else

ws.Range("j" & Summary\_table\_row).Interior.ColorIndex = 3

End If

ws.Range("k" & Summary\_table\_row).NumberFormat = "0.00%"

'Print the Ticker's Total Volume to the Summary Table

ws.Range("L" & Summary\_table\_row).Value = Ticker\_total\_volume

Summary\_table\_row = Summary\_table\_row + 1

Last\_price = i + 1

Ticker\_total\_volume = 0

Else

Ticker\_total\_volume = Ticker\_total\_volume + ws.Cells(i, 7).Value

End If

Next i

'Set range from which to determine smallest value

LastRow1 = ws.Cells(Rows.Count, 11).End(xlUp).Row

Set Rng = ws.Range("k2:k" & LastRow1)

Set Rng2 = ws.Range("l2:l" & LastRow1)

'Worksheet function MIN returns the smallest value in a range

ws.Range("Q2").Value = Application.WorksheetFunction.Max(Rng)

ws.Range("Q3").Value = Application.WorksheetFunction.Min(Rng)

ws.Range("Q4").Value = Application.WorksheetFunction.Max(Rng2)

ws.Range("q2:q3").NumberFormat = "0.00%"

foundMin = 1

foundMax = 1

foundMaxVol = 1

For j = 2 To LastRow1

If ws.Range("Q2").Value = ws.Range("k" & j).Value And foundMax = 1 Then

ws.Range("P2").Value = ws.Range("I" & j).Value

foundMax = 0

End If

If ws.Range("Q3").Value = ws.Range("k" & j).Value And foundMin = 1 Then

ws.Range("P3").Value = ws.Range("I" & j).Value

foundMin = 0

End If

If ws.Range("Q4").Value = ws.Range("L" & j).Value And foundMaxVol = 1 Then

ws.Range("p4").Value = ws.Range("I" & j).Value

foundMaxVol = 0

End If

If foundMin = 0 And foundMax = 0 Then

Exit For

End If

Next j

Summary\_table\_row = 2

Last\_price = 2

Ticker\_total\_volume = 0

Next ws

End Sub