Sub stock\_analysis()

Dim LastRow As Long

Dim ticker\_symbol As String

Dim open\_stock\_val As Double

Dim stock\_vol As Double

Dim numval As Integer

Dim ticker\_open\_price As Double

Dim ticker\_close\_price As Double

Dim counter\_for\_open\_price As Double

Dim yearly\_change As Double

Dim percent\_char As Double

Dim wsheet As Worksheet

' BONUS Assignment

Dim great\_perinc As Double

Dim great\_perinc\_ticker As String

Dim great\_perdec As Double

Dim great\_perdec\_ticker As String

Dim great\_stockvol As Double

Dim great\_stockvol\_ticker As String

Dim total\_worksheets As Integer

' loop over each worksheet in the excel

For Each wsheet In ActiveWorkbook.Worksheets

' Make the worksheet active.

wsheet.Activate

' Find the last row of each worksheet

LastRow = wsheet.Cells(Rows.Count, "A").End(xlUp).Row

' Assign Headings

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

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

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

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

' Initialize variables for each worksheet.

numval = 0

ticker\_symbol = ""

yearly\_change = 0

ticker\_open\_price = 0

percent\_char = 0

stock\_val = 0

numval = 2

For i = 2 To LastRow

ticker\_symbol = Cells(i, 1).Value

' Get the start of the year opening price for the ticker.

If ticker\_open\_price = 0 Then

ticker\_open\_price = Cells(i, 3).Value

End If

stock\_val = stock\_val + Cells(i, 7).Value

If Cells(i + 1, 1).Value <> Cells(i, 1) Then 'boundary found

ticker\_close\_price = wsheet.Cells(i, 6).Value

' find yearly change

yearly\_change = ticker\_close\_price - ticker\_open\_price

' print results of stock market analysis

wsheet.Range("I" & numval).Value = ticker\_symbol

wsheet.Range("L" & numval).Value = stock\_val

wsheet.Range("J" & numval).Value = yearly\_change

' If yearly change value is greater than 0, fill green.

If yearly\_change > 0 Then

wsheet.Cells(numval, 10).Interior.ColorIndex = 4

' If yearly change value is less than 0, fill red.

ElseIf yearly\_change < 0 Then

wsheet.Cells(numval, 10).Interior.ColorIndex = 3

' If yearly change value is 0, fill yellow.

' Else

' wsheet.Cells(numval, 10).Interior.ColorIndex = 6

End If

' Calculate percent change value for each ticker symbol

If ticker\_open\_price = 0 Then

percent\_char = 0

Else

percent\_char = (yearly\_change / ticker\_open\_price)

End If

' Format the percent\_change value as a percent.

wsheet.Cells(numval, 11).Value = Format(percent\_char, "Percent")

numval = numval + 1

stock\_val = 0

ticker\_close\_price = 0

ticker\_open\_price = 0

End If

Next i

' Add section to display greatest percent increase, greatest percent decrease, and greatest total volume for each year.

wsheet.Range("P2").Value = "Greatest % Increase"

wsheet.Range("P3").Value = "Greatest % Decrease"

wsheet.Range("P4").Value = "Greatest Total Volume"

wsheet.Range("Q1").Value = "Ticker"

wsheet.Range("R1").Value = "Value"

' Get the last row

LastRow = wsheet.Cells(Rows.Count, "I").End(xlUp).Row

' Initialize variables and set values of variables initially to the first row in the list.

great\_perinc = Cells(2, 11).Value

great\_perinc\_ticker = Cells(2, 9).Value

great\_perdec = Cells(2, 11).Value

great\_perdec\_ticker = Cells(2, 9).Value

great\_stockvol = Cells(2, 12).Value

great\_stockvol\_ticker = Cells(2, 9).Value

' skipping the header row, loop through the list of tickers.

For i = 2 To LastRow

' Find the ticker with the greatest percent increase.

If Cells(i, 11).Value > great\_perinc Then

great\_perinc = Cells(i, 11).Value

great\_perinc\_ticker = Cells(i, 9).Value

End If

' Find the ticker with the greatest percent decrease.

If Cells(i, 11).Value < great\_perdec Then

great\_perdec = Cells(i, 11).Value

great\_perdec\_ticker = Cells(i, 9).Value

End If

' Find the ticker with the greatest stock volume.

If Cells(i, 12).Value > great\_stockvol Then

great\_stockvol = Cells(i, 12).Value

great\_stockvol\_ticker = Cells(i, 9).Value

End If

Next i

' Add the values for greatest percent increase, decrease, and stock volume to each worksheet.

wsheet.Range("Q2").Value = Format(great\_perinc\_ticker, "Percent")

wsheet.Range("R2").Value = Format(great\_perinc, "Percent")

wsheet.Range("Q3").Value = Format(great\_perdec\_ticker, "Percent")

wsheet.Range("R3").Value = Format(great\_perdec, "Percent")

wsheet.Range("Q4").Value = great\_stockvol\_ticker

wsheet.Range("R4").Value = great\_stockvol

Next wsheet

End Sub