Sub Stock\_Ticker():

'loop through the worksheets

For Each ws In ActiveWorkbook.Worksheets

' Set an initial variable for holding the stock ticker

Dim Stock\_Ticker As String

' Set an initial variable for holding the total per stock

Dim Ticker\_Total As Double

Ticker\_Total = 0

'set the initial variable for yearly change

Dim yearly\_change As Double

'set the initial variable for percent change

Dim percent\_change As Variant

'set the last cell and last stock

Dim last\_cell As Long

last\_cell = 1 + ws.Cells(Rows.Count, "A").End(xlUp).Row

last\_stock = 1 + ws.Cells(Rows.Count, "G").End(xlUp).Row

' Keep track of the location for each stock ticker in the summary table

Dim Summary\_Table\_Row As Integer

Summary\_Table\_Row = 2

last\_cell = 1 + ws.Cells(Rows.Count, "A").End(xlUp).Row

'Calculate the yearly change (difference between open and close), need to pull opening price on first day (datemin) and closing price on last day (datemax) and calculate open/close

'this will be the first stock's open

Dim annual\_open As Double

annual\_open = ws.Cells(2, 3).Value

'set annual close price

Dim annual\_close As Double

'insert the summary table headers

ws.Cells(1, 10).Value = "Ticker"

ws.Cells(1, 11).Value = "Yearly Change"

ws.Cells(1, 12).Value = "Percent Change"

ws.Cells(1, 13).Value = "Total Stock Volume"

'insert headers for the bonus summary

ws.Cells(1, 16).Value = "Ticker"

ws.Cells(1, 17).Value = "Value"

ws.Cells(2, 15).Value = "Greatest % increase"

ws.Cells(3, 15).Value = "Greatest % decrease"

ws.Cells(4, 15).Value = "Greatest Total Volume"

'set the intial value for the greatest % increase

Max = ws.Cells(2, 12).Value

'set the initial value for the greatest % decrease

Min = ws.Cells(2, 12).Value

'set the initial value for the greatest total volume

Max\_volume = ws.Cells(2, 13).Value

' Loop through the stocks, columns A thru G

For i = 2 To last\_cell

' Check if we are still within the same stock , if it is not...

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

' Set the Stock Ticker

Stock\_Ticker = ws.Cells(i, 1).Value

' Add to the Stock TickerTotal

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

' Here, i is the last row of the current stock, so assign it

annual\_close = ws.Cells(i, 6).Value

'calculate the yearly change

yearly\_change = annual\_open - annual\_close

'calculate the percent change

percent\_change = yearly\_change / annual\_open

' Here, i + 1 is the first row of next stock

' so assign it

annual\_open = ws.Cells(i + 1, 3).Value

' Print the Stock Ticker in the Summary Table

ws.Range("J" & Summary\_Table\_Row).Value = Stock\_Ticker

' Print the Stock volumen total to the Summary Table

ws.Range("M" & Summary\_Table\_Row).Value = Ticker\_Total

'Print the yearly change to summary table

ws.Range("K" & Summary\_Table\_Row).Value = yearly\_change

'Print the percent change to summary table

ws.Range("L" & Summary\_Table\_Row).Value = percent\_change

' Add one to the summary table row

Summary\_Table\_Row = Summary\_Table\_Row + 1

' Reset the Ticker Total

Ticker\_Total = 0

' If the cell immediately following a row is the same brand...

Else

' Add to the Ticker Total

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

End If

Next i

'loops through summary table, columns J thru M, for bonus exercise

For i = 3 To Summary\_Table\_Row

'check to see if the next percent change in row i is larger then current Max(greatest % increase)

If ws.Cells(i, 12).Value > Max Then

'if yes, then resets the Max value to the row 1 value

Max = ws.Cells(i, 12).Value

'Get the ticker for the corresponding new Max value

Max\_ticker = ws.Cells(i, 10).Value

'checks to see if the next percent change in row i is smaller than the current Min(greatest % decrease)

ElseIf ws.Cells(i, 12).Value < Min Then

Min = ws.Cells(i, 12).Value

'get the ticker for the corresponding new Min value

Min\_ticker = ws.Cells(i, 10).Value

End If

'checks to see if the next total volume is greater than the current

If ws.Cells(i, 13).Value > Max\_volume Then

Max\_volume = ws.Cells(i, 13).Value

'get the ticker for the corresponding new Max\_volume

Max\_volume\_ticker = ws.Cells(i, 10).Value

End If

Next i

'print the ticker for the Max value to the summary table

ws.Cells(2, 16).Value = Max\_ticker

'print ticker for the Min value to the summary table

ws.Cells(3, 16).Value = Min\_ticker

'print ticker for the Max Volume to the summary table

ws.Cells(4, 16).Value = Max\_volume\_ticker

'print Max value to summary table

ws.Cells(2, 17).Value = Max

'print Min value to summary table

ws.Cells(3, 17).Value = Min

'print Max volume total to summary table

ws.Cells(4, 17).Value = Max\_volume

'loop through for column K for the conditional formating

For i = 2 To Summary\_Table\_Row

' conditional formatting cell color

If Cells(i, 11) < 0 Then

Cells(i, 11).Interior.ColorIndex = 3

Else

Cells(i, 11).Interior.ColorIndex = 4

End If

Next i

Next ws

End Sub