Sub stock\_analysis():

' Set dimensions

Dim total As Double

Dim i As Long

Dim change As Double

Dim j As Integer

Dim start As Long

Dim rowCount As Long

Dim percentChange As Double

Dim days As Integer

Dim dailyChange As Double

Dim averageChange As Double

Dim ws As Worksheet

For Each ws In Worksheets

' Set values for each worksheet

j = 0

total = 0

change = 0

start = 2

dailyChange = 0

' Set title row

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("P1").Value = "Ticker"

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

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

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

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

' get the row number of the last row with data

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

For i = 2 To rowCount

' If ticker changes then print results

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

' Stores results in variables

total = total + ws.Cells(i, 7).Value

' Handle zero total volume

If total = 0 Then

' print the results

ws.Range("I" & 2 + j).Value = Cells(i, 1).Value

ws.Range("J" & 2 + j).Value = 0

ws.Range("K" & 2 + j).Value = "%" & 0

ws.Range("L" & 2 + j).Value = 0

Else

' Find First non zero starting value

If ws.Cells(start, 3) = 0 Then

For find\_value = start To i

If ws.Cells(find\_value, 3).Value <> 0 Then

start = find\_value

Exit For

End If

Next find\_value

End If

' Calculate Change

change = (ws.Cells(i, 6) - ws.Cells(start, 3))

percentChange = change / ws.Cells(start, 3)

' start of the next stock ticker

start = i + 1

' print the results

ws.Range("I" & 2 + j).Value = ws.Cells(i, 1).Value

ws.Range("J" & 2 + j).Value = change

ws.Range("J" & 2 + j).NumberFormat = "0.00"

ws.Range("K" & 2 + j).Value = percentChange

ws.Range("K" & 2 + j).NumberFormat = "0.00%"

ws.Range("L" & 2 + j).Value = total

' colors positives green and negatives red

Select Case change

Case Is > 0

ws.Range("J" & 2 + j).Interior.ColorIndex = 4

Case Is < 0

ws.Range("J" & 2 + j).Interior.ColorIndex = 3

Case Else

ws.Range("J" & 2 + j).Interior.ColorIndex = 0

End Select

End If

' reset variables for new stock ticker

total = 0

change = 0

j = j + 1

days = 0

dailyChange = 0

' If ticker is still the same add results

Else

total = total + ws.Cells(i, 7).Value

End If

Next i

' take the max and min and place them in a separate part in the worksheet

ws.Range("Q2") = "%" & WorksheetFunction.Max(ws.Range("K2:K" & rowCount)) \* 100

ws.Range("Q3") = "%" & WorksheetFunction.Min(ws.Range("K2:K" & rowCount)) \* 100

ws.Range("Q4") = WorksheetFunction.Max(ws.Range("L2:L" & rowCount))

' returns one less because header row not a factor

increase\_number = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("K2:K" & rowCount)), ws.Range("K2:K" & rowCount), 0)

decrease\_number = WorksheetFunction.Match(WorksheetFunction.Min(ws.Range("K2:K" & rowCount)), ws.Range("K2:K" & rowCount), 0)

volume\_number = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("L2:L" & rowCount)), ws.Range("L2:L" & rowCount), 0)

' final ticker symbol for total, greatest % of increase and decrease, and average

ws.Range("P2") = ws.Cells(increase\_number + 1, 9)

ws.Range("P3") = ws.Cells(decrease\_number + 1, 9)

ws.Range("P4") = ws.Cells(volume\_number + 1, 9)

Next ws

End Sub