Sub VBA\_StockAnalysis():

'set dimensions(integer<long<double)

Dim ws As Worksheet

Dim TotalVolume As Double

Dim k As Long

Dim QuarterlyChange As Double

Dim l As Long

Dim start As Long

Dim RowCount As Long

Dim PercentChange As Double

Dim days As Integer

Dim DailyChange As Double

Dim AverageChange As Double

' Loop through each worksheet (each quarter)

For Each ws In ThisWorkbook.Worksheets

'define title rows and columns

ws.Range("K1").Value = "Ticker"

ws.Range("L1").Value = "Quarterly Change"

ws.Range("M1").Value = "Percent Change"

ws.Range("N1").Value = "Total Stock Volume"

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

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

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

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

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

'set initial values

l = 0

TotalVolume = 0

QuarterlyChange = 0

start = 2

'tell VBA where the last row of data is

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

For k = 2 To RowCount

'if ticker changes then print the results

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

'stores the results in the totalvolume variable we defined earlier

TotalVolume = TotalVolume + ws.Cells(k, 7).Value

'tell VBA what to do if the totalvolume is 0

If TotalVolume = 0 Then

ws.Range("K" & 2 + l).Value = Cells(k, 1).Value

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

ws.Range("M" & 2 + l).Value = "%" & 0

ws.Range("N" & 2 + l).Value = 0

Else

'tells VBA what to do if starting value isnt a zero

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

For find\_value = start To k

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

start = find\_value

Exit For

End If

Next find\_value

End If

'Calculate change (Quarterly and Percent)

QuarterlyChange = (ws.Cells(k, 6) - ws.Cells(start, 3))

PercentChange = QuarterlyChange / ws.Cells(start, 3)

'start next stock ticker

start = k + 1

'print resulting values

ws.Range("K" & 2 + l).Value = ws.Cells(k, 1).Value

ws.Range("L" & 2 + l).Value = QuarterlyChange

ws.Range("L" & 2 + l).NumberFormat = "0.00"

ws.Range("M" & 2 + l).Value = PercentChange

ws.Range("M" & 2 + l).NumberFormat = "0.00%"

ws.Range("N" & 2 + l).Value = TotalVolume

'conditional formatting that will highlight positive change in green and negative change in red

Select Case QuarterlyChange

Case Is > 0

ws.Range("L" & 2 + l).Interior.Color = RGB(196, 215, 155)

Case Is < 0

ws.Range("L" & 2 + l).Interior.Color = RGB(218, 150, 148)

Case Else

ws.Range("L" & 2 + l).Interior.ColorIndex = 0

End Select

End If

'next stock ticker

TotalVolume = 0

QuarterlyChange = 0

l = l + 1

days = 0

Else

TotalVolume = TotalVolume + ws.Cells(k, 7).Value

End If

Next k

'find max/min for % increase and decrease and find max volume

ws.Range("R2") = "%" & WorksheetFunction.Max(ws.Range("M2:M" & RowCount)) \* 100

ws.Range("R3") = "%" & WorksheetFunction.Min(ws.Range("M2:M" & RowCount)) \* 100

ws.Range("R4") = WorksheetFunction.Max(ws.Range("N2:N" & RowCount))

increase\_number = WorksheetFunction.Match(WorksheetFunction.Max(Range("M2:M" & RowCount)), Range("M2:M" & RowCount), 0)

decrease\_number = WorksheetFunction.Match(WorksheetFunction.Min(Range("M2:M" & RowCount)), Range("M2:M" & RowCount), 0)

volume\_number = WorksheetFunction.Match(WorksheetFunction.Max(Range("N2:N" & RowCount)), Range("N2:N" & RowCount), 0)

'find the corellated ticker symbol

ws.Range("Q2") = ws.Cells(increase\_number + 1, 11)

ws.Range("Q3") = ws.Cells(decrease\_number + 1, 11)

ws.Range("Q4") = ws.Cells(volume\_number + 1, 11)

Next ws

End Sub