Module 2 VBA challenge

'add four columns. Ticker, Yearly Change, Percent Change, Total Stock Volume

'Ticker column has ticker symbol

'Yearly change from the opening price at the beginning of a given year to the closing price at the end of that year

'The percentage change from the opening price at the beginning of a given year to the closing price at the end of that year.

'The total stock volume of the stock.

'Add functionality to your script to return the stock with the "Greatest % increase", "Greatest % decrease", and "Greatest total volume".

Sub analysis():

'set up dimension

Dim total As Double

Dim i As Long

Dim change As Single

Dim j As Integer

Dim start As Long

Dim rowcount As Long

Dim percentChange As Single

Dim days As Integer

Dim dailychange As Single

Dim averageChange As Single

'adding for looping to all worksheets.

Dim ws As Worksheet

' do the below steps for all three worksheets

For Each ws In ThisWorkbook.Sheets

'enter titles of new columns i-l

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

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

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

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

'adding ticker, value, greatest % increase, greatest % decrease, greatest total 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"

'Set initial values

j = 0

total = 0

change = 0

start = 2

dailychange = 0

'what is the row number of the last row with data

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

For i = 2 To rowcount

'when ticker changes then give results

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

'Store results in variables

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

'if total volume is zero

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

'what is the 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

'shade 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

'If ticker is still the same add results

Else: total = total + Cells(i, 7).Value

End If

Next i

'part 2 get the great increase, greatest decrease and greatest total volume and place in q2,q3,q4

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))

'what is ticker for greatest increase, greatest decrease and greatest total volume

ticker\_greatestincrease = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("k2:k" & rowcount)), ws.Range("k2:k" & rowcount), 0)

ticker\_greatestdecrease = WorksheetFunction.Match(WorksheetFunction.Min(ws.Range("k2:k" & rowcount)), ws.Range("k2:k" & rowcount), 0)

ticker\_greatestvolume = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("l2:l" & rowcount)), ws.Range("l2:l" & rowcount), 0)

'final ticker symbol greatest % increase, greatest % decrease and great total volume

ws.Range("p2") = Cells(ticker\_greatestincrease + 1, 9)

ws.Range("p3") = Cells(ticker\_greatestdecrease + 1, 9)

ws.Range("p4") = Cells(ticker\_greatestvolume + 1, 9)

Next ws

End Sub

Read me acknowledgement:

[how to loop vba on mulitple ws - Search (bing.com)](https://www.bing.com/search?q=how+to+loop+vba+on+mulitple+ws&cvid=c6a6e04854fc416d92396d00ab5b60a6&aqs=edge..69i57j0l8.20214j0j9&FORM=ANAB01&PC=LCTS) look up how to loop thru worksheets

[VBA loop of multiple sheets in a worksheet - Stack Overflow](https://stackoverflow.com/questions/52012092/vba-loop-of-multiple-sheets-in-a-worksheet)

[How to Loop Through All the Sheets using VBA in Excel (excelchamps.com)](https://excelchamps.com/vba/loop-sheets/)