VU Data Analytics Boot Camp Challenge 2 VBA Script

Sub StockAnalysis():

Dim ws As Worksheet

For Each ws In Worksheets

ws.Cells(1, 9).Value = "Ticker"

ws.Cells(1, 15).Value = "Ticker"

ws.Cells(1, 10).Value = "Yearly Change"

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

ws.Cells(1, 12).Value = "Total Stock Volume"

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

ws.Cells(2, 14).Value = "Greatest % Increase"

ws.Cells(3, 14).Value = "Greatest % Decrease"

ws.Cells(4, 14).Value = "Greatest Total Volume"

Dim ticker As String

Dim vol As Double

vol = 0

Dim tsymbolrow As Integer

tsymbolrow = 2

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

lngrow2 = ws.Cells(ws.Rows.Count, "K").End(xlUp).Row

Dim op As Double

Dim cp As Double

Dim yrchange As Double

Dim oi As Long

oi = 2

Dim pc As Double

Dim max As Double

max = 0

Dim min As Double

min = 0

Dim volmax As Variant

volmax = 0

For r = 2 To lngrow

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

ticker = ws.Cells(r, 1).Value

vol = vol + ws.Cells(r, 7).Value

op = ws.Cells(oi, 3).Value

cp = ws.Cells(r, 6).Value

yrchange = cp - op

pc = yrchange / op

ws.Range("I" & tsymbolrow).Value = ticker

ws.Range("L" & tsymbolrow).Value = vol

ws.Range("J" & tsymbolrow).Value = yrchange

ws.Range("K" & tsymbolrow).Value = pc

ws.Range("k" & tsymbolrow).NumberFormat = "0.00%"

tsymbolrow = tsymbolrow + 1

vol = 0

Else

vol = vol + ws.Cells(r, 7).Value

End If

If ws.Cells(r, 11).Value > max Then

max = ws.Cells(r, 11).Value

ElseIf ws.Cells(r, 11).Value < min Then

min = ws.Cells(r, 11).Value

End If

If ws.Cells(r, 12).Value > volmax Then

volmax = ws.Cells(r, 12).Value

End If

Next r

ws.Range("P2:P3").NumberFormat = "0.00%"

ws.Cells(2, 16).Value = max

ws.Cells(3, 16).Value = min

ws.Cells(4, 16).Value = volmax

For v = 2 To lngrow2

If ws.Cells(v, 11).Value = ws.Cells(2, 16).Value Then

ws.Cells(2, 15).Value = ws.Cells(v, 9).Value

ElseIf ws.Cells(v, 11).Value = ws.Cells(3, 16).Value Then

ws.Cells(3, 15).Value = ws.Cells(v, 9).Value

ElseIf ws.Cells(v, 12).Value = ws.Cells(4, 16).Value Then

ws.Cells(4, 15).Value = ws.Cells(v, 9).Value

End If

If ws.Cells(v, 10).Value > 0 Then

ws.Cells(v, 10).Interior.ColorIndex = 4

ElseIf ws.Cells(v, 10).Value < 0 Then

ws.Cells(v, 10).Interior.ColorIndex = 3

End If

If ws.Cells(v, 11).Value > 0 Then

ws.Cells(v, 11).Interior.ColorIndex = 4

ElseIf ws.Cells(v, 11).Value < 0 Then

ws.Cells(v, 11).Interior.ColorIndex = 3

End If

Next v

Next ws

End Sub