Module 2 Challenge

VBA Script

Sub TickerChallange()

'Loop Through all sheets

For Each ws In Worksheets

'Variables

Dim ticker As String

Dim nextticker As String

Dim yearlychange As Double

Dim percentchange As Double

Dim totalstockvolume As LongLong

Dim start As Long

Dim days As Integer

Dim dailychange As Double

Dim averagechange As Double

Dim i As Long

Dim j As Integer

Dim percentdifference As Range

Dim volumedifference As Range

Dim increase As Double

Dim decrease As Double

Dim greatesttotalvolume As LongLong

totalstockvolume = 0

yearlychange = 0

percentchange = 0

start = 2

j = 0

'Keeps track of the location for each ticker in the summary table

Dim Summary\_Table\_Row As Integer

Summary\_Table\_Row = 2

'Determine the Lastrow since we need that in order to loop through

Dim worksheetname As String

lastrow = ws.Cells(Rows.Count, 1).End(xlUp).Row

worksheetname = ws.Name

ws.Cells(1, 9).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(2, 15).Value = "Greatest % Increase"

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

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

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

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

'Loop through the ticker

For i = 2 To lastrow

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

nextticker = ws.Cells(i + 1, 1).Value

'Check if we are still in the same ticker, if it is not

If nextticker <> ticker Then

'Set ticker name

ws.Cells(Summary\_Table\_Row, 9).Value = ticker

ws.Cells(Summary\_Table\_Row, 10).Value = yearlychange

ws.Cells(Summary\_Table\_Row, 11) = percentchange

'Add to the Total Stock Volume

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

'Print the Total Stock Volume to the the Summary Table

ws.Cells(Summary\_Table\_Row, 12).Value = totalstockvolume

'Add one to the summary tale row

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

'Reset the Total stock volume

If totalstockvolume = 0 Then

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

If ws.Cells(start, 3).Value = 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 percent change

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

percentchange = yearlychange / ws.Cells(start, 3).Value

'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 = yearlychange

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

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

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

Set percentdifference = Range("K2:K3001")

Set volumedifference = Range("L2:L3001")

Cells(2, 17).Value = WorksheetFunction.Max(percentdifference)

Cells(3, 17).Value = WorksheetFunction.Min(percentdifference)

Cells(4, 17).Value = WorksheetFunction.Max(volumedifference)

row\_ticker\_increase = WorksheetFunction.Match(Cells(2, 17).Value, percentdifference, 0)

row\_ticker\_decrease = WorksheetFunction.Match(Cells(3, 17).Value, percentdifference, 0)

row\_ticker\_volume = WorksheetFunction.Match(Cells(4, 17).Value, volumedifference, 0)

ws.Cells(2, 16).Value = ws.Cells(row\_ticker\_increase + 1, 9).Value

ws.Cells(3, 16).Value = ws.Cells(row\_ticker\_decrease + 1, 9).Value

ws.Cells(4, 16).Value = ws.Cells(row\_ticker\_volume + 1, 9).Value

'color postives green and negatives red

If ws.Cells(Summary\_Table\_Row - 1, 10).Value < 0 Then

ws.Cells(Summary\_Table\_Row - 1, 10).Interior.ColorIndex = 3

ElseIf ws.Cells(Summary\_Table\_Row - 1, 10).Value > 0 Then

ws.Cells(Summary\_Table\_Row - 1, 10).Interior.ColorIndex = 4

Else

ws.Cells(Summary\_Table\_Row - 1, 10).Value = 0

End If

If ws.Cells(Summary\_Table\_Row - 1, 11).Value < 0 Then

ws.Cells(Summary\_Table\_Row - 1, 11).Interior.ColorIndex = 3

ElseIf ws.Cells(Summary\_Table\_Row - 1, 11).Value > 0 Then

ws.Cells(Summary\_Table\_Row - 1, 11).Interior.ColorIndex = 4

Else

ws.Cells(Summary\_Table\_Row - 1, 11).Value = 0

End If

End If

' reset variables for new stock ticker

totalstockvolume = 0

yearlychange = 0

j = j + 1

days = 0

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

Else

'Add to the Total Stock Volume

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

End If

Next i

Next ws

End Sub