Sub VBA\_Challenge()

Dim ws As Worksheet

Dim lastRow As Long

Dim Ticker As String

Dim QuarterlyChange As Double

Dim PercentChange As Double

Dim TotalStockVolume As Double

Dim open\_price As Double

Dim close\_price As Double

Dim output As Long

Dim GreatestIncrease As Double

Dim GreatestDecrease As Double

Dim GreatestIVolume As Double

Dim GreatestIncreaseTicker As String

Dim GreatestDecreaseTicker As String

Dim GreatestIVolumeTicker As String

For Each ws In Worksheets

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

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

ws.Range("J1").Value = "Quarterly 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"

TotalStockVolume = 0

open\_price = ws.Cells(2, 3).Value

outputRow = 2

GreatestIncrease = 0

GreatestDecrease = 0

GreatestVolume = 0

For i = 2 To lastRow

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

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

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

close\_price = ws.Cells(i, 6).Value

QuarterlyChange = close\_price - open\_price

If open\_price <> 0 Then

PercentChange = (QuarterlyChange / open\_price) \* 100

Else

PercentChange = 0

End If

ws.Cells(outputRow, 9).Value = Ticker

ws.Cells(outputRow, 10).Value = QuarterlyChange

ws.Cells(outputRow, 11).Value = PercentChange & "%"

ws.Cells(outputRow, 12).Value = TotalStockVolume

If PercentChange > GreatestIncrease Then

GreatestIncrease = PercentChange

GreatestIncreaseTicker = Ticker

End If

If PercentChange < GreatestDecrease Then

GreatestDecrease = PercentChange

GreatestDecreaseTicker = Ticker

End If

If TotalStockVolume > GreatestVolume Then

GreatestVolume = TotalStockVolume

GreatestVolumeTicker = Ticker

End If

TotalStockVolume = 0

If i + 1 <= lastRow Then

open\_price = ws.Cells(i + 1, 3).Value

End If

outputRow = outputRow + 1

End If

If ws.Cells(i, "K").Value > 0 Then

ws.Cells(i, "K").Interior.ColorIndex = 4

ElseIf ws.Cells(i, "K").Value < 0 Then

ws.Cells(i, "K").Interior.ColorIndex = 3

End If

Next i

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

ws.Cells(2, 17).Value = GreatestIncrease & "%"

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

ws.Cells(3, 17).Value = GreatestDecrease & "%"

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

ws.Cells(4, 17).Value = GreatestVolume

Next ws

End Sub