Sub stockchallenge():

'Loop every Worksheet

For Each ws In Worksheets

Ws.Activate

' Add Headers

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

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

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

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

ws.Range("P1").Value = "Ticker"

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

'Variables

Dim ticker As String

Dim tickerstocks As Integer

Dim opening As Double

Dim closing As Double

Dim yearlychange As Double

Dim percentchange As Double

Dim volumetotal As Double

Dim greatestincrease As Double

Dim greatestincreaseticker As String

Dim greatestdecrease As Double

Dim greatestdecreaseticker As String

Dim greatesttotalvolume As Double

Dim greatesttotalvolumeticker As String

Dim lastRow As Double

' set variable values

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

ticker = ""

tickerstocks = 0

yearlychange = 0

opening = 0

percentchange = 0

volumetotal = 0

' Loop through the rows to lastRow

For iRow = 2 To lastRow

' value of the ticker letters

ticker = Cells(iRow, 1).Value

' if opening = 0 value

If opening = 0 Then

opening = Cells(iRow, 3).Value

End If

' Add the volumetotal values for a ticker

volumetotal = volumetotal + Cells(iRow, 7).Value

' if ticker changes

If Cells(iRow + 1, 1).Value <> ticker Then

' add tickerstocks when we get to a different one

tickerstocks = tickerstocks + 1

Cells(tickerstocks + 1, 9) = ticker

' closing for ticker

closing = Cells(iRow, 6)

' yearlychange value

yearlychange = closing - opening

' Add yearlychange value in each worksheet

Cells(tickerstocks + 1, 10).Value = yearlychange

' If yearlychange value > than 0, color it green

If yearlychange > 0 Then

Cells(tickerstocks + 1, 10).Interior.ColorIndex = 4

' If yearlychange value < than 0, color it red

ElseIf yearlychange < 0 Then

Cells(tickerstocks + 1, 10).Interior.ColorIndex = 3

' If yearlychange value is 0, color it yellow

Else

Cells(tickerstocks + 1, 10).Interior.ColorIndex = 6

End If

' Percentage change value for ticker

If opening = 0 Then

percentchange = 0

Else

percentchange = (yearlychange / opening)

End If

' Set opening to 0 when we get to a different ticker

opening = 0

' Format the percentchange value as a percent

Cells(tickerstocks + 1, 11).Value = Format(percentchange, "Percent")

' Add volumetotal value

Cells(tickerstocks + 1, 12).Value = volumetotal

' Set volumetotal back to 0 when we get to a different ticker

volumetotal = 0

End If

Next iRow

' set range for the "Greatest % increase", "Greatest % decrease" and "Greatest total volume"

Range("O2").Value = "Greatest % Increase"

Range("O3").Value = "Greatest % Decrease"

Range("O4").Value = "Greatest Total Volume"

' tag the last row

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

' set variable values to their rows

greatestincrease = Cells(2, 11).Value

greatestincreaseticker = Cells(2, 9).Value

greatestdecrease = Cells(2, 11).Value

greatestdecreaseticker = Cells(2, 9).Value

greatesttotalvolume = Cells(2, 12).Value

greatesttotalvolumeticker = Cells(2, 9).Value

' loop through to lastRow

For iRow = 2 To lastRow

' Get the ticker with the greatestincrease

If Cells(iRow, 11).Value > greatestincrease Then

greatestincrease = Cells(iRow, 11).Value

greatestincreaseticker = Cells(iRow, 9).Value

End If

' Get the ticker with the greatestdecrease

If Cells(iRow, 11).Value < greatestdecrease Then

greatestdecrease = Cells(iRow, 11).Value

greatestdecreaseticker = Cells(iRow, 9).Value

End If

' Get the ticker with the greatesttotalvolume

If Cells(iRow, 12).Value > greatesttotalvolume Then

greatesttotalvolume = Cells(iRow, 12).Value

greatesttotalvolumeticker = Cells(iRow, 9).Value

End If

Next iRow

' Format for greatest percent increase, decrease, and volume

Range("P2").Value = Format(greatestincreaseticker, "Percent")

Range("Q2").Value = Format(greatestincrease, "Percent")

Range("P3").Value = Format(greatestdecreaseticker, "Percent")

Range("Q3").Value = Format(greatestdecrease, "Percent")

Range("P4").Value = greatesttotalvolumeticker

Range("Q4").Value = greatesttotalvolume

Next ws

End Sub