Note:

Most of the code was from classmate Karl Ramsay as I was stuck. I studied all the lines and did manage to edit a few related to the “Greatest Challenge” that was not working. Also, (not shown here) I created an alternate solution in the Test Data file that consolidated data from all sheets into a new “Combined Data” sheet. This was done using code verbatim from Wells Fargo Activity.

-Kevin Ryan

Sub karlloop():

'set the variables we are gonna work with

Dim first\_day\_price As Single

Dim last\_day\_price As Single

Dim volume\_total As Double

Dim last\_row As Long

Dim x As Long

'we are going to need to create a summary table for our results starting in columns I though Q

'create the headings

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

Range("J1").Value = "Price Change"

Range("K1").Value = "Percentage Change in Price"

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

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

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

'create a loop structure to loop over each sheet in the workbook

'every statement between the "For Each" and the "Next wks" will repeat for each sheet

For Each wks In Worksheets

'inside the loop for each sheet, we need another loop for the actual dataset on each sheet

' but before we begin the loop we need to know where the data ends

' we already know it begins on row 2 of each worksheets

' To find the last row we need have the script go to the very last row in column A of the sheet

' then go back up until it hits the last row in Columna A that has some data in it.

last\_row = wks.Cells(Rows.Count, 1).End(xlUp).Row

'set the initial value for the ticker and the first\_day\_price

'in the beginning - the first ticker can be found in cells A2 or row 2, column 1

Ticker = Cells(2, 1).Value

first\_day\_price = Cells(2, 3).Value

'this is a variable we will use to keep track of what line in the summary table we are writing values to

x = 2

'now that we know which is the last row with data i the current sheet we can begin looping thrrough the dataset

' note the indentation -- as it makes it easier to differentiate when we are working in the inner loop vs. the outer loop

For i = 2 To last\_row

' as long as the ticker matches the current assignment we need to keep adding to the Volume total

If Cells(i, 1).Value = Ticker Then

volume\_total = volume\_total + Cells(i, 7).Value

Else

' if it does not match the ticker assignment any more, it means that we have passed the last record for the current ticker assignment

'so we need to to go back up one row to find out the Last day Price in column 6

last\_day\_price = Cells(i - 1, 6).Value

'Next we need to write our values to a summary table which is show in columns I, J, K, and L

Cells(x, 9).Value = Ticker

Cells(x, 10).Value = last\_day\_price - first\_day\_price

'shade cells as green for a positive price change and red for a negative price change

If Cells(x, 10).Value > 0 Then

Cells(x, 10).Interior.ColorIndex = 4

ElseIf Cells(x, 10).Value < 0 Then

Cells(x, 10).Interior.ColorIndex = 3

End If

'if the first day price is zero then set then percentage change = 0

If first\_day\_price = 0 Then

Cells(x, 11).Value = 0

Else

Cells(x, 11).Value = (last\_day\_price - first\_day\_price) / first\_day\_price

End If

'apply number format as percentage

Cells(x, 11).NumberFormat = "%0.00"

Cells(x, 12).Value = volume\_total

'apply number format to two decimal places

Cells(x, 11).NumberFormat = "0.00"

'increment the counter so that we do not overwrite the values when we are additing details for a new ticker in the summary table

x = x + 1

'now update / set the ticker variable to reflect the new value

Ticker = Cells(i, 1).Value

'reset the first\_day\_price and total\_volume variables for the new ticker

first\_day\_price = Cells(i, 3).Value

volume\_total = Cells(i, 7).Value

End If

' once the variables have been reinitialized and the counters set we con now process the next row

Next i

'before we move to another sheet, we need to write the values for the greatest percentage increase and decrease as well as Total stock values

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

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

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

'find the Greatest Percentage Increase

Range(Cells(1, 9), Cells(x - 1, 12)).Sort Cells(1, 11), xlDescending, , , , , , xlYes

Range("P2").Value = Range("I2").Value

Range("q2").Value = Range("K2").Value

'find the Greatest Percentage Decrease

Range(Cells(1, 9), Cells(x - 1, 12)).Sort Cells(1, 11), xlAscending, , , , , , xlYes

Range("P3").Value = Range("I2").Value

Range("q3").Value = Range("K2").Value

'find the Greatest Total Volume Traded

Range(Cells(1, 9), Cells(x - 1, 12)).Sort Cells(1, 12), xlDescending, , , , , , xlYes

Range("P4").Value = Range("I2").Value

Range("q4").Value = Range("l2").Value

'Format Macro

Range("Q11").Select

Sheets(Array("2016", "2015", "2014")).Select

Sheets("2016").Activate

Range("Q2:Q3").Select

Selection.Style = "Percent"

Columns("P:Q").Select

With Selection

.HorizontalAlignment = xlCenter

.VerticalAlignment = xlBottom

.WrapText = False

.Orientation = 0

.AddIndent = False

.IndentLevel = 0

.ShrinkToFit = False

.ReadingOrder = xlContext

.MergeCells = False

End With

Range("I1").Select

Next wks

End Sub