Sub Worksheet\_loop():

'Declare ws variable to loop through all worksheets

Dim ws As Worksheet

'Turn off screen updating to speed up the macro

Application.ScreenUpdating = False

'Loop through all worksheets

For Each ws In Worksheets

ws.Select

Call VBAchallenge

Next ws

'Turn screen updating back on

Application.ScreenUpdating = True

End Sub

Sub VBAchallenge():

'Count the number of total rows

Dim rowcount As Double

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

'Create headers for new columns

[I1] = "Ticker"

[J1] = "Yearly Change"

[K1] = "Percent Change"

[L1] = "Total Stock Volume"

[O1] = "Ticker"

[P1] = "Value"

[N2] = "Greatest % Inc"

[N3] = "Greatest % Dec"

[N4] = "Greatest Total Vol"

'Make new headers bold

Range("I1", Range("I1").End(xlToRight)).Font.Bold = True

Range("N1:P4").Font.Bold = True

'Autofit all columns and center

Columns("A:P").AutoFit

'Copy first ticker to table

Cells(2, 9).Value = Cells(2, 1).Value

'Set row for next ticker to be copied to

tickerrow = 2

'Declare variables to calculate yearly change

Dim openprice, closeprice, yearlychange As Double

'Set initial value for openprice

openprice = [C2]

'Declare variable to calculate percentchange

Dim percentchange As Double

'Declare variable to calculate total volume and set initial value to 0

Dim totalstockvalue As LongLong

totalstockvalue = 0

'Loop through all tickers

For i = 2 To (rowcount)

'Add row's volume to totalstockvalue

totalstockvalue = totalstockvalue + Cells(i, 7).Value

'Check for new ticker to copy to table

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

'Print totalstockvalue to table

Cells(tickerrow, 12) = totalstockvalue

'Reset totalstockvalue to 0

totalstockvalue = 0

'Create var and store the new ticker

Dim ticker As String

ticker = Cells(i, 1).Value

'Print new ticker to table

Range("I" & tickerrow).Value = ticker

'Store closing price

closeprice = Cells(i, 6).Value

'Calculate yearly change and print to table

yearlychange = closeprice - openprice

Cells(tickerrow, 10).Value = yearlychange

'Calculate percent change and print to table

If openprice = 0 Then

Cells(tickerrow, 11).Value = "NA"

Else

percentchange = (closeprice - openprice) / openprice

Cells(tickerrow, 11).Value = percentchange

End If

'Reset open price value for next ticker

openprice = Cells(i + 1, 3).Value

'Add one to tickerrow

tickerrow = tickerrow + 1

'If ticker is same as previous row

Else

End If

Next i

'Count number of rows in table

Dim tablerowcount As Integer

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

'Format Column K as percent with 2 digits

Range("K2:K" & tablerowcount).NumberFormat = "0.00%"

'Format new columns so text is centered

Range("I1:L" & tablerowcount, "N1:P4").HorizontalAlignment = xlCenter

'Add commas to volume numbers to make more readable

Range("L2:L" & tablerowcount).NumberFormat = "###,###,###,##0"

'Add conditional formatting to Column J, yearly change

For j = 1 To tablerowcount

If Cells(j, 10).Value < 0 Then

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

Else: Cells(j, 10).Interior.ColorIndex = 4

End If

Next j

'Declare variables and create For loop to determine row with greatest % increase

Dim maxpercent As Double

Dim maxticker As String

maxpercent = 0.001

For k = 2 To tablerowcount

If (Cells(k, 11).Value <> "NA") Then

If (Cells(k, 11).Value > maxpercent) Then

maxpercent = Cells(k, 11).Value

maxticker = Cells(k, 9).Value

End If

ElseIf (Cells(k, 11).Value = "NA") Then

End If

Next k

'Print values to table for greatest % increase

[O2] = maxticker

[P2] = maxpercent

'Declare variables and create For loop to determine row with greatest % increase

Dim minpercent As Double

Dim minticker As String

minpercent = 0

For m = 2 To tablerowcount

If (Cells(m, 11).Value < minpercent) Then

minpercent = Cells(m, 11).Value

minticker = Cells(m, 9).Value

End If

Next m

'Print values to table for greatest % increase

[O3] = minticker

[P3] = minpercent

'Declare variables and create For loop to determine stock with greatest total volume

Dim maxvolume As LongLong

Dim maxvolticker As String

maxvolume = 1

For n = 2 To tablerowcount

If (Cells(n, 12).Value > maxvolume) Then

maxvolume = Cells(n, 12).Value

maxvolticker = Cells(n, 9).Value

End If

Next n

'Print values to table for greatest total volume

[O4] = maxvolticker

[P4] = maxvolume

'Update formatting for 2nd part of table

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

Range("O2:P4").Font.Bold = False

Range("P4").NumberFormat = "###,###,###,#00"

End Sub