Assignment 2 – Moderate Code

By Jay Schwan

Sub stockcounter()

'Define Variables

Dim ticker\_name As String

Dim volume\_total As Variant

volume\_total = 0

Dim Summary\_Table\_Row As Long

Summary\_Table\_Row = 2

Dim lrow As Long

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

Dim lcol As Integer

lcol = Cells(1, Columns.Count).End(xlToLeft).Column

Dim yearly\_change As Double

yearly\_change = 0

Dim percent\_change As Double

percent\_change = 0

Dim open\_price As Variant

open\_price = 0

Dim close\_price As Variant

close\_price = 0

Dim first\_loop As Boolean

first\_loop = True

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

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

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

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

'Display ticker in a new column

For i = 2 To lrow

'Check to see if we are still with the same ticker

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

'Set the ticker name

ticker\_name = Cells(i, 1).Value

'Add to the volume total

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

'Calculate the yearly price change

yearly\_change = (close\_price - open\_price)

'Print the ticker name in the summary table

Range("I" & Summary\_Table\_Row).Value = ticker\_name

'Print the volume amount in the summary table

Range("L" & Summary\_Table\_Row).Value = volume\_total

'Add one to the table summary row

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

'Reset the volume total

volume\_total = (0)

' If the cell immediately following a row is the same ticker...

Else

'Add to the volume total

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

End If

Next i

Summary\_Table\_Row = 2

'loop through all data

For i = 2 To lrow 'loop through all data

ticker\_name = Cells(i, 1).Value

If first\_loop = True Then

'grab open price

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

first\_loop = False

End If

'find the end of the ticker

If Not (ticker\_name = Cells(i + 1, 1).Value) Then

'set the close price

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

first\_loop = True

'Calculate yearly change

yearly\_change = (close\_price - open\_price)

If Not open\_price = 0 Then

'Calculate percent change

percent\_change = ((close\_price - open\_price) / open\_price)

End If

'print the yearly change in the summary table

Range("J" & Summary\_Table\_Row).Value = yearly\_change

If percent\_change <> 0 Then

'print the percent change in the summary table

Range("K" & Summary\_Table\_Row).Value = percent\_change

Else

Range("K" & Summary\_Table\_Row).Value = "N/A"

End If

'Add one to the table summary row

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

'Reset variables

open\_price = (0)

close\_price = (0)

yearly\_change = (0)

percent\_change = (0)

End If

Next i

'Set Color format based on positive and negative values

Set MR = Range("J2:J" & lrow)

For Each cell In MR

If cell.Value > 0 Then

cell.Interior.ColorIndex = 4

ElseIf cell.Value < 0 Then

cell.Interior.ColorIndex = 3

End If

Next

'format Yearly Change and Percent Change

Range("K2", "K50000").NumberFormat = "0.00%"

Range("J2", "J50000").NumberFormat = "0.000000000"

End Sub