‘steve reiss

‘nw data science – week 2 VBA homework – vba code

Sub Stockanalysis()

‘NOTES on Bonus Work

'Have not tried to make it work with multiple sheets

'Have not yet been able to add the correct ticker to column p

'set up dim

Dim percentchange As Double

Dim yearlychange As Double

Dim total As Double

Dim Chartrow As Integer

Dim openstock As Double

Dim closestock As Double

'set up dim for bonus

Dim maxpercent As Double

Dim minpercent As Double

Dim greatestvolume As Double

'set header rows

Cells(1, 9).Value = "Ticker"

Cells(1, 10).Value = "Yearly Change"

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

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

'set bonus header rows

Cells(1, 16).Value = "Ticker"

Cells(1, 17).Value = "Percent Change"

'set bonus row descriptions

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

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

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

'format columns - %

Columns("K:K").Select

Selection.NumberFormat = "0.00%"

Range("q2").Select

Selection.NumberFormat = "0.00%"

Range("q3").Select

Selection.NumberFormat = "0.00%"

'format columns - width

Cells.Select

Cells.EntireColumn.AutoFit

Range("h10").Select

'FIND LAST ROW

Dim lastrow As Long

lastrow = Cells(1, 1).End(xlDown).Row

'Share last row

MsgBox lastrow

'values

Chartrow = 2

total = 0

openstock = Cells(2, 3).Value

'bonus reset values

maxpercent = 0

minpercent = 0

greatestvolume = 0

'set up loop

For I = 2 To lastrow

'set up if during cycle

If Cells(I + 1, 1).Value = Cells(I, 1).Value Then

'increase the total by adding a new row

total = total + Cells(I, 7).Value

'set the closing stock with the last row covered

closestock = Cells(I, 6).Value

'set up else at end of cycle

Else

'add the ticker

Range("I" & Chartrow).Value = Cells(I, 1).Value

'add the total volume

Range("L" & Chartrow).Value = total

'add the change in price

Range("J" & Chartrow).Value = closestock - openstock

'add the percentage change in price

Range("K" & Chartrow).Value = (closestock - openstock) / closestock

'set color of cells

If Range("k" & Chartrow).Value > 0 Then

Range("k" & Chartrow).Interior.ColorIndex = 4

ElseIf Range("k" & Chartrow).Value < 0 Then

Range("k" & Chartrow).Interior.ColorIndex = 3

End If

'set values - opening price for the next stock, rows, reset total

openstock = Cells(I + 1, 3).Value

Chartrow = Chartrow + 1

total = 0

'bonus information

'greatest % increase

Dim Columnk As Range

Set Columnk = Range("k:K")

maxpercent = Application.WorksheetFunction.Max(Columnk)

Range("Q2").Value = maxpercent

'Range("P2").Value =

'greatest % decrease

'note: not showing as a percentage

Dim Columnk2 As Range

Set Columnk2 = Range("k:K")

minpercent = Application.WorksheetFunction.Min(Columnk2)

Range("Q3").Value = minpercent

'Range("p3").Value =

'greatest total volume

Dim Columnk3 As Range

Set Columnk3 = Range("L:L")

greatestvolume = Application.WorksheetFunction.Max(Columnk3)

Range("Q4").Value = greatestvolume

'Range("p4").value =

End If

Next I

End Sub