**Assignment 2 – VBA of Wall Street – HARD**

Sub Stock\_FINAL\_HW\_Assigment2()

'Declare current as a worksheet object variable

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

'Loop thru all worksheets in active workbook.

' stock name variable

Dim Brand\_Name As String

Dim i As Long

Dim counter As Integer

Dim closeprice As Double

Dim openprice As Double

' stock total variable

Dim stock\_total As Double

stock\_total = 0

counter = 0

' Keep track of the location for stock in the summary table

Dim Summary\_Table\_Row As Long

Summary\_Table\_Row = 2

'row count

lastrow = ActiveSheet.Range("B" & Rows.Count).End(xlUp).Row

lastuniquerow = ActiveSheet.Range("I" & Rows.Count).End(xlUp).Row

'Column headers

Range("I1") = "Ticker"

Range("J1") = "Yearly Change"

Range("K1") = "Percent Change"

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

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

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

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

Range("P1") = "Ticker"

Range("Q1") = "Value"

' Loop through all rows

For i = 2 To lastrow

' Check if we are still within the same stock, if it is not...

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

' Set the stockname

Brand\_Name = Cells(i, 1).Value

' Add last stock volumne to the Total

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

' open & close stock price

closeprice = Cells(i, 6).Value

openprice = Cells(i - counter, 3).Value

' Print the stock in the Summary Table

Range("I" & Summary\_Table\_Row).Value = Brand\_Name

' Print the stock Amount to the Summary Table

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

'Print open price in the summary table - for check

'Range("N" & Summary\_Table\_Row).Value = openprice

'Print closeprice in the summary table - for check

'Range("O" & Summary\_Table\_Row).Value = closeprice

'Print open price in the summary table

Range("J" & Summary\_Table\_Row).Value = closeprice - openprice

'Format column to percentage

Range("K" & Summary\_Table\_Row).NumberFormat = "0.00%"

'Print percent chg in the summary table

If openprice = 0 Then

Range("K" & Summary\_Table\_Row).Value = 0

ElseIf openprice > 0 Then

Range("K" & Summary\_Table\_Row).Value = (closeprice - openprice) / openprice

End If

'sets cell color: postive to green; negative to red

If Range("J" & Summary\_Table\_Row).Value <= 0 Then

Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 3

ElseIf (Range("J" & Summary\_Table\_Row).Value > 0) Then

Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 4

End If

'Add one to the summary table row

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

'Reset the stock volume & counter

stock\_total = 0

counter = 0

' If the cell immediately following a row is the stock name

Else

' Add to the stock Total

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

counter = counter + 1

End If

Next i

Next ws

'Calling Sub routine MMAX

Call MMAX

End Sub

Sub MMAX()

'Hard Portion of HW

Dim ws As Worksheet

Dim PerMax As Double

Dim PerMin As Double

Dim MaxVol As Variant

Dim maxrow As Long

Dim minrow As Long

Dim symvol As Long

For Each ws In Worksheets

ws.Activate

'Hard Portion of HW

lastrow = ActiveSheet.Range("B" & Rows.Count).End(xlUp).Row

lastuniquerow = ActiveSheet.Range("I" & Rows.Count).End(xlUp).Row

'percent format

Range("Q2:Q3").NumberFormat = "0.00%"

'to find Max & Min percent value & Max volumn

PerMax = Application.WorksheetFunction.Max(Range("k2:k" & CStr(lastuniquerow)))

Range("Q2") = PerMax

PerMin = Application.WorksheetFunction.Min(Range("k2:k" & CStr(lastuniquerow)))

Range("Q3") = PerMin

MaxVol = Application.WorksheetFunction.Max(Range("L2:L" & CStr(lastuniquerow)))

Range("Q4") = MaxVol

'determine row of max & Min value & Max volume in column I

maxrow = Application.WorksheetFunction.Match(PerMax, Range("k2:k" & CStr(lastuniquerow)), 0)

'MsgBox (maxrow)

'pasting Stock symbol of max value to max summary table

Range("P2") = Cells(maxrow + 1, 9)

minrow = Application.WorksheetFunction.Match(PerMin, Range("k2:k" & CStr(lastuniquerow)), 0)

'MsgBox (maxrow)

'pasting Stock symbol of min value to max summary table

Range("P3") = Cells(minrow + 1, 9)

symvol = Application.WorksheetFunction.Match(MaxVol, Range("L2:L" & CStr(lastuniquerow)), 0)

'MsgBox (SymVol)

'pasting Stock symbol max vol to max summary table

Range("P4") = Cells(symvol + 1, 9)

Next ws

End Sub