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‘Visual Basic HW #2

‘Due 3/5/18

' Given starting row,col return array of ranges for column

' Used to find column range for a column that has same content

Function getColRanges(Row As Long, Col As Long, size As Long) As Long()

Dim rArray() As Long

Dim I As Long

Dim j As Long

Dim k As Long

Dim r1 As Long

Dim r2 As Long

ReDim rArray(1 To size)

j = Row

I = j

k = 1

Do

c = Cells(j, Col).Value 'starting value

Do 'Loop until c changes

j = j + 1

Loop Until c <> Cells(j, Col).Value

r1 = I

r2 = j - 1

I = r2 + 1

j = I

rArray(k) = r1

rArray(k + 1) = r2

k = k + 2

Loop Until IsEmpty(Cells(I, Col).Value) = True

getColRanges = rArray()

End Function

Function Calculate() As Boolean

Dim I As Long

Dim j As Long

Dim k As Long

Dim l As Integer

Dim r As Integer

Dim start As Long

Dim cStock As String

Dim rStr As String

Dim xs As String

Dim r1 As Long

Dim r2 As Long

Dim x As Variant

Dim volCol As Variant 'Column for Volume

Dim openVal As Double

Dim closeVal As Double

Dim pDelta As Double

Dim rArray() As Long

volCol = 12

openCol = 3

closeCol = 6

Dim WS\_Count As Integer

Dim M As Integer

' Get the ranges

rArray = getColRanges(2, 1, 128000)

'

l = 1 'First index into array

r = 2 'Set to starting row first

For Each Element In rArray

If rArray(l) = 0 Then

Exit For

End If

If l Mod 2 <> 0 Then

'Get ticker symbol

Cells(r \ 2 + 1, 9).Value = Cells(rArray(l), 1).Value

Else 'stuff that takes full range odd and even index

'Find volume total

rStr = "G" & CStr(rArray(l - 1)) & ":G" & CStr(rArray(l))

x = Application.WorksheetFunction.Sum(Range(rStr))

Cells(r \ 2 + 1, volCol).Value = x

'Calculate yearly price change

pDelta = Cells(rArray(l), 6).Value - Cells(rArray(l - 1), 3).Value

Cells(r \ 2 + 1, 10).Value = pDelta

'Calculate yearly percent increase/decrease

If Cells(rArray(l - 1), 3) <> 0 Then

pChg = pDelta / (Cells(rArray(l - 1), 3))

Else

pChg = 0

End If

Cells(r \ 2 + 1, 11).Value = pChg

End If

l = l + 1

r = r + 1

Next Element

End Function

Function FillCells2Colors(Row As Integer, Col As Integer) As Boolean

r = Row

c = Col

Do

If Cells(r, c).Value < 0 Then

Cells(r, c).Interior.ColorIndex = 3

End If

If Cells(r, c).Value > 0 Then

Cells(r, c).Interior.ColorIndex = 4

End If

r = r + 1

Loop Until IsEmpty(Cells(r, c).Value) = True

End Function

Sub Stocks()

Dim x As Boolean

Dim WS\_Count As Integer

Dim M As Integer

WS\_Count = ActiveWorkbook.Worksheets.Count

For M = 1 To WS\_Count

Worksheets(M).Activate

x = Calculate()

x = FillCells2Colors(2, 10)

Next M

End Sub