' Calculate yearly changed, percentage and total stock volume exchanged

Sub CalculateSummary()

' Declare variables

Dim vSummaryTableRow As Integer

Dim vLastRow As Long

Dim vYrOpenPrice As Double

Dim vYrClosePrice As Double

Dim vYrChangePrice As Double

Dim vPctChange As Double

Dim vTotStkVolume As Double

Dim vNewTicker As Boolean

' Initialise variables

vSummaryTableRow = 2

vNewTicker = True

' Setup summary table header

Range("I1") = "Ticker"

Range("J1") = "Yearly Changed"

Range("K1") = "Percentage Changed"

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

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

' Loop through all Ticker's data rows

For i = 2 To vLastRow

' New ticker, save the first open price which is needed later for comparing with the last closed price

If vNewTicker Then

vYrOpenPrice = Cells(i, 3)

vNewTicker = False

End If

' Check if we are still within the same ticker name, if it is not, print out Ticker’s details

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

' Calculate and assign value to variables

vYrClosePrice = Cells(i, 6)

vYrChangePrice = vYrClosePrice - vYrOpenPrice

If vYrOpenPrice <> 0 Then

vPctChange = (vYrClosePrice - vYrOpenPrice) / vYrOpenPrice

End If

vTotStkVolume = vTotStkVolume + Cells(i, 7)

' Print the Ticker Name and its relavant details to the Summary Table

Range("I" & vSummaryTableRow) = Cells(i, 1)

Range("J" & vSummaryTableRow) = vYrChangePrice

Range("K" & vSummaryTableRow) = vPctChange

Range("L" & vSummaryTableRow) = vTotStkVolume

' Change color to Red = 3 if value is negative, if positive color Green = 4

If vYrChangePrice < 0 Then

Range("J" & vSummaryTableRow).Interior.ColorIndex = 3

Else

Range("J" & vSummaryTableRow).Interior.ColorIndex = 4

End If

' After printing out, increment the summary table row count, and reset variables for next row

vSummaryTableRow = vSummaryTableRow + 1

vYrOpenPrice = 0

vYrClosePrice = 0

vYrChangePrice = 0

vPctChange = 0

vTotStkVolume = 0

vNewTicker = True

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

Else

' Add value to Total variables

vTotStkVolume = vTotStkVolume + Cells(i, 7)

End If

Next i

End Sub