Sub doStocks()

' for each row

' add the total VOLUME

' check if next row is the same STOCK

' if it isn't, we've reached the total

' write out to column I and L

' reset the counter

Dim currStock As String

Dim totalVolume As Double

Dim nextStock As String

Dim row As Long

Dim summaryRow As Integer

Dim lastRow As Long

Dim openPrice As Double

Dim closePrice As Double

Dim yearlyChange As Double

Dim percentChange As Double

Dim tabs As Worksheet

' Loop through all the tabs of the worksheet for each year

For Each tabs In Worksheets

' column headers

tabs.Cells(1, 9).Value = "ticker"

tabs.Cells(1, 10).Value = "yearly\_change"

tabs.Cells(1, 11).Value = "percent\_change"

tabs.Cells(1, 12).Value = "total\_volume"

' default values

totalVolume = 0

summaryRow = 2

lastRow = tabs.Cells(ActiveSheet.Rows.Count, 1).End(xlUp).row

'get open price of each stock

openPrice = tabs.Cells(2, 3).Value

'cycle through worksheet rows

For row = 2 To lastRow

currStock = tabs.Cells(row, 1).Value

nextStock = tabs.Cells(row + 1, 1).Value

'add total of each stock

totalVolume = totalVolume + tabs.Cells(row, 7).Value

'If the next stock does not match the previous stock then end cycle for that one stock and calculate yearly/percent changes

If nextStock <> currStock Then

'calculate close price

closePrice = tabs.Cells(row, 6).Value

yearlyChange = closePrice - openPrice

'cannot divide by zero so avoid error by telling program what to do with zero

If openPrice = 0 Then

percentChange = 0

Else

percentChange = yearlyChange / openPrice

End If

' write to a summary table

tabs.Cells(summaryRow, 9).Value = currStock

tabs.Cells(summaryRow, 10).Value = yearlyChange

tabs.Cells(summaryRow, 11).Value = percentChange

tabs.Cells(summaryRow, 12).Value = totalVolume

'conditional to highlight cells

If yearlyChange < 0 Then

tabs.Cells(summaryRow, 10).Interior.ColorIndex = 4

tabs.Cells(summaryRow, 10).Font.ColorIndex = 5

tabs.Cells(summaryRow, 11).Interior.ColorIndex = 3

tabs.Cells(summaryRow, 11).Font.ColorIndex = 5

Else

tabs.Cells(summaryRow, 10).Interior.ColorIndex = 3

tabs.Cells(summaryRow, 10).Font.ColorIndex = 5

tabs.Cells(summaryRow, 11).Interior.ColorIndex = 4

tabs.Cells(summaryRow, 11).Font.ColorIndex = 5

End If

'reset

totalVolume = 0

summaryRow = summaryRow + 1

'grab open price of next stock

openPrice = tabs.Cells(row + 1, 3).Value

End If

Next row

Dim lastSummaryRow As Long

Dim greatestVolume As Double

Dim greatestVolumeStock As String

Dim greatestIncrease As Double

Dim greatestIncreaseStock As String

Dim greatestDecrease As Double

Dim greatestDecreaseStock As String

'default values

lastSummaryRow = tabs.Cells(tabs.Rows.Count, 9).End(xlUp).row

greatestVolume = tabs.Cells(2, 12).Value

greatestVolumeStock = tabs.Cells(2, 9).Value

greatestIncrease = tabs.Cells(2, 11).Value

greatestIncreaseStock = tabs.Cells(2, 9).Value

greatestDecrease = tabs.Cells(2, 11).Value

greatestDecreaseStock = tabs.Cells(2, 9).Value

For row = 2 To lastSummaryRow

' search for greatest total volume

If tabs.Cells(row, 12).Value > greatestVolume Then

greatestVolume = tabs.Cells(row, 12).Value

greatestVolumeStock = tabs.Cells(row, 9).Value

End If

' search for greatest percent increase in stocks

If tabs.Cells(row, 11).Value > greatestIncrease Then

greatestIncrease = tabs.Cells(row, 11).Value

greatestIncreaseStock = tabs.Cells(row, 9).Value

End If

' search for greatest percent decrease in stocks

If tabs.Cells(row, 11).Value < greatestDecrease Then

greatestDecrease = tabs.Cells(row, 11).Value

greatestDecreaseStock = tabs.Cells(row, 9).Value

End If

Next row

' Make final column headersthroughout each tab of workbook

tabs.Cells(1, 16).Value = "ticker"

tabs.Cells(1, 17).Value = "value"

tabs.Cells(2, 15).Value = "greatest\_percent\_increase"

tabs.Cells(2, 16).Value = greatestIncreaseStock

tabs.Cells(2, 17).Value = greatestIncrease

'Format cells to show percentage

tabs.Cells(2, 17).NumberFormat = "0.00%"

tabs.Cells(3, 15).Value = "greatest\_percent\_decrease"

tabs.Cells(3, 16).Value = greatestDecreaseStock

tabs.Cells(3, 17).Value = greatestDecrease

'Format cells to show percentage

tabs.Cells(3, 17).NumberFormat = "0.00%"

tabs.Cells(4, 15).Value = "greatest\_total\_volume"

tabs.Cells(4, 16).Value = greatestVolumeStock

tabs.Cells(4, 17).Value = greatestVolume

Next

End Sub