Sub Stock\_analyzer():

'-------------------------------------------------

' Variables

'-------------------------------------------------

' Set variable for holding the stock ticker name

Dim Ticker\_Name As String

' Set variable for holding the total volume per ticker name

Dim Ticker\_Total\_Volume As Double

Ticker\_Total\_Volume = 0

' Set variable for holding the opening price of the year

Dim Ticker\_Opening\_Price As Double

Ticker\_Opening\_Price = 0

' Set variable for holding the closing price of the year

Dim Ticker\_Closing\_Price As Double

Ticker\_Closing\_Price = 0

' Set variable for holding the price change

Dim Price\_Change As Double

Price\_Change = 0

' Set variable for holding the percent change

Dim Percent\_Change As Double

Percent\_Change = 0

' Set variable to keep track of the location of each ticker name in the summary table

Dim Summary\_Table\_Row As Integer

Summary\_Table\_Row = 2

' Set variable for holding greatest %change increase data

Dim Great\_Percent\_Increase As Double

Great\_Percent\_Increase = 0

' Set variable for holding greatest %change decrease data

Dim Great\_Percent\_Decrease As Double

Great\_Percent\_Decrease = 0

' Set variable for holding greatest total volume data

Dim Great\_Total\_Volume As Double

Great\_Total\_Volume = 0

' Set variable for holding greatest %change increase ticker name

Dim Great\_Percent\_Increase\_Ticker As String

' Set variable for holding greatest %change decrease ticker name

Dim Great\_Percent\_Decrease\_Ticker As String

' Set variable for holding greatest total volume ticker name

Dim Great\_Total\_Volume\_Ticker As String

Dim movedate As Integer

'-------------------------------------------------

' Looping through all sheets

'-------------------------------------------------

For Each ws In Worksheets

'-------------------------------------------------

' Creating summary table headers

'-------------------------------------------------

' Create the Ticker header of the summary table

ws.Range("I1").Value = "Ticker"

' Create the Yearly Change header of the summary table

ws.Range("J1").Value = "Yearly Change"

' Create the Percent Change header of the summary table

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

' Create the Total Stock Volume header of the summary table

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

' Determine the Last Row

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

'-------------------------------------------------

' Looping through all the stocks on the current sheet to calculate Price Change,

' % Change & Total Stock Volume, also populate the summary table

'-------------------------------------------------

' Loop through all the stock entrees

For i = 2 To LastRow

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

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

' Set the closing price of the year

Ticker\_Closing\_Price = ws.Cells(i, 6).Value

' Set the stock ticker name

Ticker\_Name = ws.Cells(i, 1).Value

' Add the stock ticker name to the summary table

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

' Calculate the yearly price change

Price\_Change = (Ticker\_Closing\_Price - Ticker\_Opening\_Price)

' Add the yearly price change to the summary table

ws.Range("J" & Summary\_Table\_Row).Value = Price\_Change

' Setting the number format to a number rounded to 2 decimal places

ws.Range("J" & Summary\_Table\_Row).NumberFormat = "#0.00"

' Check if there is a price change, if there is no change ...

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

'Set cell color fill to no fill

ws.Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 0

' If there is a positive price change

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

'Set cell color fill to green

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

' If there is a negative price change

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

'Set cell color fill to red

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

End If

' Check if there is a price change, if there is no change ...

If Price\_Change = 0 Then

' Set percentage to 0

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

' Setting the number format to percentage

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

' Check if there is a price change, if there is a change ...

Else

' Calculate the percent change

Percent\_Change = (Ticker\_Closing\_Price - Ticker\_Opening\_Price) / Ticker\_Opening\_Price

' Add the percent change to the summary table

ws.Range("K" & Summary\_Table\_Row).Value = Percent\_Change

' Setting the number format to percentage

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

End If

' Add to the stock total volume

Ticker\_Total\_Volume = Ticker\_Total\_Volume + ws.Cells(i, 7).Value

' Add the total stock volume to the summary table

ws.Range("L" & Summary\_Table\_Row).Value = Ticker\_Total\_Volume

' Increment the summary table row by 1

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

' Reset the stock total volume

Ticker\_Total\_Volume = 0

' Reset the stock opening price

Ticker\_Opening\_Price = 0

' Reset the stock closing price

Ticker\_Closing\_Price = 0

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

Else

' Check if row is holding data for the opening day of the year

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

'Check if ws.Cells(i,3).Value = 0 AND ws.Cells(i,7).Value = 0, if it is TRUE...

If ws.Cells(i, 3).Value = 0 And ws.Cells(i, 7).Value = 0 Then

' Set movedate counter to 1

movedate = 1

' Loop until you found a non zero opening day cell price AND non zero volume

Do Until ws.Cells(i + movedate, 3).Value > 0 Or ws.Cells(i + movedate, 1) <> ws.Cells(i + movedate + 1, 1)

movedate = movedate + 1

Loop

'Set the opening price of the year

Ticker\_Opening\_Price = ws.Cells(i + movedate, 3).Value

Else

'Set the opening price of the year

Ticker\_Opening\_Price = ws.Cells(i, 3).Value

End If

' If the row is not holding the opening day information

Else

' Add to the stock total volume

Ticker\_Total\_Volume = Ticker\_Total\_Volume + ws.Cells(i, 7).Value

End If

End If

Next i

'-------------------------------------------------

' Identifying the Greatest % increase",

' Greatest % decrease and Greatest total volume

'-------------------------------------------------

' Determine the Last Row of the summary table

Summary\_LastRow = Cells(Rows.Count, 9).End(xlUp).Row

' Setting the starting values of Great\_Percent\_Increase, Great\_Percent\_Increase\_Ticker,Great\_Percent\_Decrease, Great\_Percent\_Decrease\_Ticker, Great\_Total\_Volume, Great\_Total\_Volume\_Ticker

Great\_Percent\_Increase = ws.Cells(2, 11).Value

Great\_Percent\_Increase\_Ticker = ws.Cells(2, 9).Value

Great\_Percent\_Decrease = ws.Cells(2, 11).Value

Great\_Percent\_Decrease\_Ticker = ws.Cells(2, 9).Value

Great\_Total\_Volume = ws.Cells(2, 12).Value

Great\_Total\_Volume\_Ticker = ws.Cells(2, 9).Value

' Loop through all the summary table entrees

For si = 3 To Summary\_LastRow

' Compare Great\_Percent\_Increase with the current cell, if the current cell is higher ...

If Great\_Percent\_Increase < ws.Cells(si, 11).Value Then

Great\_Percent\_Increase = ws.Cells(si, 11).Value

Great\_Percent\_Increase\_Ticker = ws.Cells(si, 9).Value

' Compare Great\_Percent\_Increase with the current cell, if the current cell is lower ...

Else

End If

' Compare Great\_Percent\_Decrease with the current cell, if the current cell is lower ...

If Great\_Percent\_Decrease > ws.Cells(si, 11).Value Then

Great\_Percent\_Decrease = ws.Cells(si, 11).Value

Great\_Percent\_Decrease\_Ticker = ws.Cells(si, 9).Value

' Compare Great\_Percent\_Decrease with the current cell, if the current cell is higher ...

Else

End If

' Compare the total stock volume of the current cell and the next cell, if the current cell is higher ...

If Great\_Total\_Volume < ws.Cells(si, 12).Value Then

Great\_Total\_Volume = ws.Cells(si, 12).Value

Great\_Total\_Volume\_Ticker = ws.Cells(si, 9).Value

Else

End If

Next si

' Create the greatest percent increase label

ws.Range("O2").Value = "Greatest % Increase"

' Create the greatest percent decrease label

ws.Range("O3").Value = "Greatest % Decrease"

' Create the greatest total volume label

ws.Range("O4").Value = "Greatest Total Volume"

' Create the ticker label

ws.Range("P1").Value = "Ticker"

' Create the volume label

ws.Range("Q1").Value = "Volume"

' Populate greatest %increase ticker

ws.Range("P2").Value = Great\_Percent\_Increase\_Ticker

' Populate greatest %decrease ticker

ws.Range("P3").Value = Great\_Percent\_Decrease\_Ticker

' Populate greatest total volume ticker

ws.Range("P4").Value = Great\_Total\_Volume\_Ticker

' Populate greatest %increase data

ws.Range("Q2").Value = Great\_Percent\_Increase

' Setting the number format to percentage

ws.Range("Q2").NumberFormat = "#0.00%"

' Populate greatest %decrease data

ws.Range("Q3").Value = Great\_Percent\_Decrease

' Setting the number format to percentage

ws.Range("Q3").NumberFormat = "#0.00%"

'Populate greatest total volume data

ws.Range("Q4").Value = Great\_Total\_Volume

' Setting the number format to a number without decimal places

ws.Range("Q4").NumberFormat = "#0"

' Setting the summary table row value back to 2

Summary\_Table\_Row = 2

' Setting Great\_Percent\_Increase, Great\_Percent\_Decrease, Great\_Total\_Volume back to 0

Great\_Percent\_Increase = 0

Great\_Percent\_Decrease = 0

Great\_Total\_Volume = 0

' Autofit data

ws.Columns("I:Q").AutoFit

Next ws

End Sub