Sub stockmarket()

Dim tickersymbol As String

Dim YearChange As Double

Dim PercentageChange As Double

Dim ws As Worksheet

Dim lastRow As Long

Dim i As Long

Dim total\_stock\_volume As Currency

Dim ticker\_row As Long '

Dim maxPercentageChange As Double

Dim maxTicker As String

Dim minPercentageChange As Double

Dim minTicker As String

Dim maxVol As Currency

maxVol = -1

Dim maxVol\_ticker As String

' Loop through each worksheet

For Each ws In Worksheets

Dim WorksheetName As String

WorksheetName = ws.Name

ticker\_row = 2 ' Initialize it here, outside of the loop

' Making new column names

ws.Range("K1").Value = "Ticker"

ws.Range("L1").Value = "Yearly Change"

ws.Range("M1").Value = "Percentage Change"

ws.Range("N1").Value = "Total stock volume"

ws.Range("S2").Value = "Greatest % Increase"

ws.Range("S3").Value = "Greatest % Decrease"

ws.Range("S4").Value = "Greatest Total Volume"

ws.Range("T1").Value = "Ticker"

ws.Range("U1").Value = "Value"

' Find the last row in column A

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

' Reset total\_stock\_volume before starting to process rows for the current worksheet

total\_stock\_volume = 0

' Loop through the rows of data

For i = 2 To lastRow

' Check if the next row's ticker symbol is different

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

' Code for different ticker symbol

tickersymbol = ws.Cells(i, 1).Value

' Put ticker symbol into column K

ws.Cells(ticker\_row, 11).Value = tickersymbol

' Put total stock volume into column N

ws.Cells(ticker\_row, 14).Value = total\_stock\_volume

' Find the opening row (loop upwards from the current row)

Dim openingRow As Long

openingRow = i

Do While openingRow > 1 And ws.Cells(openingRow, 1).Value = ws.Cells(i, 1).Value

openingRow = openingRow - 1

Loop

openingRow = openingRow + 1

' Get the opening price from the opening row (assuming opening price is in column C)

Dim openingPrice As Double

openingPrice = ws.Cells(openingRow, 3).Value

' Find the closing price (from the last row of the ticker)

Dim closingPrice As Double

closingPrice = ws.Cells(i, 6).Value ' Assuming closing price is in column F

' Calculate price difference and put it in column L (Yearly Change)

YearChange = closingPrice - openingPrice

ws.Cells(ticker\_row, 12).Value = YearChange

' Set cell color based on Yearly Change

If YearChange > 0 Then

ws.Cells(ticker\_row, 12).Interior.ColorIndex = 4 ' Green color index

Else

ws.Cells(ticker\_row, 12).Interior.ColorIndex = 3 ' Red color index

End If

' Calculate percentage change

If openingPrice <> 0 Then

PercentageChange = (YearChange / openingPrice) \* 100

Else

PercentageChange = 0 ' Avoid division by zero error

End If

' Put percentage change in column M (Percentage Change)

ws.Cells(ticker\_row, 13).Value = PercentageChange

' Check if this percentage change is the maximum so far

If PercentageChange > maxPercentageChange Then

maxPercentageChange = PercentageChange

maxTicker = tickersymbol

End If

' Check if this percentage change is the minimum so far

If PercentageChange < minPercentageChange Then

minPercentageChange = PercentageChange

minTicker = tickersymbol

End If

' Increment ticker\_row

ticker\_row = ticker\_row + 1

' Reset total\_stock\_volume for next ticker

total\_stock\_volume = 0

Else

' Code for the same ticker symbol

' Accumulate total stock volume for the current ticker symbol

total\_stock\_volume = total\_stock\_volume + ws.Cells(i, 7).Value

' Check if the current total stock volume is greater than the maximum so far

If total\_stock\_volume > maxVol Then

maxVol = total\_stock\_volume

maxVol\_ticker = Cells(ticker\_row, 11) ' Update the maxVol\_ticker

End If

End If

Next i

' Handle the last ticker symbol

If lastRow > 1 Then

' Put total stock volume into column N for the last ticker symbol

ws.Cells(ticker\_row, 14).Value = total\_stock\_volume

End If

' Output the maximum percentage change and corresponding ticker symbol to cells T2 and U2 respectively

ws.Range("T2").Value = maxTicker

ws.Range("U2").Value = maxPercentageChange

' Output the minimum percentage change and corresponding ticker symbol to cells T3 and U3 respectively

ws.Range("T3").Value = minTicker

ws.Range("U3").Value = minPercentageChange

' Output the maximum total volume and corresponding ticker symbol to cells T4 and U4 respectively

ws.Range("T4").Value = maxVol\_ticker

ws.Range("U4").Value = maxVol

Next ws

End Sub