Sub StockAnalysis()

' Variables for storing data

Dim ticker As String

Dim openingPrice As Double

Dim closingPrice As Double

Dim yearlyChange As Double

Dim percentChange As Double

Dim totalVolume As Double

Dim lastRow As Long

Dim summaryRow As Long

Dim greatestIncrease As Double

Dim greatestDecrease As Double

Dim greatestVolume As Double

Dim greatestIncreaseTicker As String

Dim greatestDecreaseTicker As String

Dim greatestVolumeTicker As String

' Loop through all sheets

For Each ws In Worksheets

' Find the last row in the current sheet

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

' Initialize variables for summary

summaryRow = 2

greatestIncrease = 0

greatestDecrease = 0

greatestVolume = 0

' Loop through each row of data

For i = 2 To lastRow

' Check if the ticker symbol has changed

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

' Set the ticker symbol

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

' Set the closing price

closingPrice = ws.Cells(i, 6).Value

' Calculate yearly change

yearlyChange = closingPrice - openingPrice

' Avoid division by zero error

If openingPrice <> 0 Then

' Calculate percentage change

percentChange = (yearlyChange / openingPrice) \* 100

Else

percentChange = 0

End If

'Label the Summary Table headers

ws.Cells(1, 9).Value = "Ticker"

ws.Cells(1, 10).Value = "YearlyChange"

ws.Cells(1, 11).Value = "PercentChange"

ws.Cells(1, 12).Value = "TotalVolume"

ws.Cells(1, 17).Value = "Ticker"

ws.Cells(1, 18).Value = "Value"

' Add the yearly change, percentage change, and total volume to the summary table

ws.Cells(summaryRow, 9).Value = ticker

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

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

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

' Format cells in column K as percentage with two decimal places'

ws.Range("K:K").NumberFormat = "0.00"

' Format cells based on positive or negative change

If yearlyChange > 0 Then

ws.Cells(summaryRow, 10).Interior.Color = RGB(0, 255, 0) ' Green for positive change

ElseIf yearlyChange < 0 Then

ws.Cells(summaryRow, 10).Interior.Color = RGB(255, 0, 0) ' Red for negative change

End If

' Update summary variables

If percentChange > greatestIncrease Then

greatestIncrease = percentChange

greatestIncreaseTicker = ticker

ElseIf percentChange < greatestDecrease Then

greatestDecrease = percentChange

greatestDecreaseTicker = ticker

End If

If totalVolume > greatestVolume Then

greatestVolume = totalVolume

greatestVolumeTicker = ticker

End If

' Reset variables for the next ticker

summaryRow = summaryRow + 1

openingPrice = 0

totalVolume = 0

Else

' Accumulate total volume for the current ticker

totalVolume = totalVolume + ws.Cells(i, 7).Value

' Set the opening price for the current ticker

If openingPrice = 0 Then

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

End If

End If

Next i

' Display greatest increase, decrease, and volume in the summary table

ws.Cells(2, 16).Value = "Greatest % Increase"

ws.Cells(3, 16).Value = "Greatest % Decrease"

ws.Cells(4, 16).Value = "Greatest Total Volume"

ws.Cells(2, 17).Value = greatestIncreaseTicker

ws.Cells(3, 17).Value = greatestDecreaseTicker

ws.Cells(4, 17).Value = greatestVolumeTicker

ws.Cells(2, 18).Value = greatestIncrease

ws.Cells(3, 18).Value = greatestDecrease

ws.Cells(4, 18).Value = greatestVolume

Next ws

End Sub