Sub SummarizeStockData()

Dim ws As Worksheet

Dim lastRow As Long

Dim Ticker As String

Dim firstOpenPrice As Double

Dim lastClosePrice As Double

Dim yearlychange As Double

Dim percentChange As Double

Dim totalstockVolume As Double

Dim summaryRow As Long

' Set the worksheet where your data is located

Set ws = ThisWorkbook.Worksheets("2018") ' Replace "Sheet1" with your actual sheet name

' Find the last row of data in the sheet

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

' Initialize variables

Ticker = ws.Range("A2").Value ' Assuming stock ticker starts from row 2

firstOpenPrice = ws.Range("C2").Value ' Assuming open price is in column C

lastClosePrice = 0 ' Placeholder for last close price

yearlychange = 0

totalstockVolume = 0

' Initialize summary row

summaryRow = 2

' Loop through the data and summarize each stock ticker

For i = 2 To lastRow

' Check if the stock ticker has changed

If ws.Range("A" & i).Value <> Ticker Then

' Calculate the price difference

yearlychange = lastClosePrice - firstOpenPrice

' Calculate the percentage change

percentChange = yearlychange / firstOpenPrice

' Output the summary for the previous stock ticker

ws.Range("J" & summaryRow).Value = Ticker

ws.Range("K" & summaryRow).Value = yearlychange

If ws.Range("K" & summaryRow).Value > 0 Then

ws.Range("K" & summaryRow).Interior.ColorIndex = 4

Else

ws.Range("K" & summaryRow).Interior.ColorIndex = 3

End If

ws.Range("L" & summaryRow).Value = percentChange

ws.Range("M" & summaryRow).Value = totalstockVolume

' Move to the next summary row

summaryRow = summaryRow + 1

' Update variables for the new stock ticker

Ticker = ws.Range("A" & i).Value

firstOpenPrice = ws.Range("C" & i).Value

totalstockVolume = 0

End If

' Update the last close price and total volume for the current row

lastClosePrice = ws.Range("F" & i).Value ' Assuming close price is in column F

totalstockVolume = totalstockVolume + ws.Range("G" & i).Value ' Assuming volume is in column G

Next i

' Calculate and output the summary for the last stock ticker

yearlychange = lastClosePrice - firstOpenPrice

percentChange = yearlychange / firstOpenPrice

ws.Range("J" & summaryRow).Value = Ticker

ws.Range("K" & summaryRow).Value = yearlychange

ws.Range("L" & summaryRow).Value = percentChange

ws.Range("M" & summaryRow).Value = totalstockVolume

End Sub