VBA Script

\*\*I attempted the values multiple times and met with a tutor but no luck :(

Sub stockmarket()

Dim ws As Worksheet

Dim ticker As String

Dim output\_row As Long

Dim lastRow As Long

Dim i As Long

Dim j As Long

Dim openPrice As Double

Dim closePrice As Double

Dim priceChange As Double

Dim priceChangePercent As Double

Dim tickerRow As Long

Dim greatestincTicker As String

Dim greatestincValue As Double

Dim greatestdecTicker As String

Dim greatestdecValue As Double

Dim greatestTotalVolumeTicker As String

Dim greatestTotalVolumeValue As Double

Dim totalstockVolumeTicker As String

Dim totalstockVolumeValue As Double

For Each ws In Worksheets

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

ws.Cells(1, "J").Value = "Yearly Change"

ws.Cells(1, "K").Value = "Percent Change"

ws.Cells(1, "L").Value = "Total Stock Volume"

output\_row = 2

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

greatestincValue = -9999

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

' Initialize j outside the loop

j = 2

For i = 2 To lastRow

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

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

'inputs

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

'calculations

priceChange = closePrice - openPrice

If openPrice <> 0 Then

priceChangePercent = (priceChange / openPrice) \* 100

Else

priceChangePercent = 0

End If

'another if statement for total volume

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

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

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

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

ws.Cells(j, 9).Value = ws.Cells(i, 1).Value

ws.Cells(j, 12).Value = totalstockVolume

j = j + 1

totalstockVolume = 0

End If

'another if statement

If priceChange > greatestincValue Then

greatestincValue = priceChange

greatestincTicker = ticker

End If

If priceChange < greatestdecValue Then

greatestdecValue = priceChange

greatestdecTicker = ticker

End If

If priceChange > totalstockVolumeValue Then

totalstockVolumeValue = priceChange

totalstockVolumeTicker = ticker

End If

' Check for greatest percentage increase

If priceChangePercent > greatestPercentincValue Then

greatestPercentincValue = priceChangePercent

greatestPercentIncTicker = ticker

greatestPercentincValue = ws.Range("Q2").Value

End If

' Check for the greatest total volume

If totalstockVolume > greatestTotalVolumeValue Then

greatestTotalVolumeValue = totalstockVolume

greatestTotalVolumeTicker = ticker

End If

'outputs

ws.Cells(output\_row, "I").Value = ticker

ws.Cells(output\_row, "J").Value = priceChange

ws.Cells(output\_row, "K").Value = priceChangePercent & "%"

' Color code based on yearly change

If priceChange > 0 Then

ws.Cells(output\_row, "J").Interior.ColorIndex = 4 ' Green

ElseIf priceChange < 0 Then

ws.Cells(output\_row, "J").Interior.ColorIndex = 3 'Red

End If

ws.Range("P2").Value = greatestincTicker

ws.Range("P3").Value = greatestdecTicker

ws.Range("P4").Value = greatestTotalVolumeTicker

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

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

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

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

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

' Update the output cell accordingly

'prepare for the next ticker

output\_row = output\_row + 1

openPrice = ws.Cells(i + 1, 3).Value

End If

Next i

'overall summary

tickerRow = 2

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

For i = 2 To lastRow

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

ws.Cells(tickerRow, "J").Value = ws.Cells(i, "F").Value - ws.Cells(tickerRow, "C").Value

tickerRow = i + 1

End If

Next i

Next ws

End Sub

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Description automatically generated

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