

This was the code I came up with, the second code below is a cleaned up version that chatgpt cleaned up for me.

Original

```
Sub Variables()  
'This sets the script across the whole spreadsheet  
  For Each ws In Worksheets  
    ws.Activate  
'This put the names into the columns I want to populate  
    Range("I1").Value = "Ticker"  
    Range("J1").Value = "Yearly Change"  
    Range("K1").Value = "Percent Change"  
    Range("L1").Value = "Total Stock Volume"  
  
'This summarizes my data  
    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"  
  
'This helps the cells fit to the headers above  
    Columns("I:L").AutoFit  
  
'This sets variables for columns  
    Dim ticker As String  
    Dim time As Date  
    Dim opening As Currency  
    Dim high As Currency  
    Dim low As Currency  
    Dim closing As Currency  
    Dim volume As Long  
    Dim lastrow As Long  
    Dim totalvolume As Double 'Use Double for Currency value  
    Dim beginning As Long  
    Dim greatestIncrease As Double  
    Dim greatestDecrease As Double  
    Dim greatestVolume As Double  
  
    greatestIncrease = -999999999 ' Set to a very large negative number  
    greatestDecrease = 999999999 ' Set to a very large positive number  
    greatestVolume = 0
```

'This counts the rows to the end, sets total volume at 0, defines where to start counting for opening. beginning is where the information populates in the columns we set.

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

```
totalvolume = 0
```

```
opening = Cells(2, "C").Value
```

```
beginning = 2
```

'Set Variable "I"

```
For i = 2 To lastrow
```

```
  If Cells(i, "A").Value = Cells(i + 1, "A").Value Then
```

```
    totalvolume = totalvolume + Cells(i, "G").Value
```

'Totalvolume is added to each ticker

```
  Else
```

```
    totalvolume = totalvolume + Cells(i, "G").Value
```

```
    closeprice = Cells(i, "F").Value
```

```
    yearlychange = closeprice - opening
```

```
    percentagechange = (yearlychange / opening) * 100
```

```
    Cells(beginning, "I").Value = Cells(i, "A").Value
```

```
    Cells(beginning, "J").Value = yearlychange
```

```
    Cells(beginning, "K").Value = "%" & percentagechange
```

```
    Cells(beginning, "L").Value = totalvolume
```

'This makes the cells shaded

```
  If yearlychange > 0 Then
```

```
    ws.Range("J" & beginning).Interior.Color = vbGreen
```

```
  ElseIf yearlychange < 0 Then
```

```
    ws.Range("J" & beginning).Interior.Color = vbRed
```

```
  Else
```

```
    ws.Range("J" & beginning).Interior.Color = vbWhite
```

'This resets the loop back to 0 for the tickers

```
  End If
```

```
  totalvolume = 0
```

```
  opening = Cells(i + 1, "C").Value
```

```
  beginning = beginning + 1
```

```
End If
```

```
' Check for greatest % increase
```

```
If percentchange > greatestIncrease Then
```

```
  greatestIncrease = percentchange
```

```
  tickerGreatestIncrease = Cells(i, "A").Value
```

```
End If
```

```
' Check for greatest % decrease
```

```

        If percentchange < greatestDecrease Then
            greatestDecrease = percentchange
            tickerGreatestDecrease = Cells(i, "A").Value
        End If
    ' Check for greatest total volume
    If totalvolume > greatestVolume Then
        greatestVolume = totalvolume
        tickerGreatestVolume = Cells(i, "A").Value

    End If
Next i

'Outputs the greatest values to the summary section
ws.Range("P2").Value = tickerGreatestIncrease
ws.Range("Q2").Value = greatestIncrease / 100
ws.Range("P3").Value = tickerGreatestDecrease
ws.Range("Q3").Value = greatestDecrease / 100
ws.Range("P4").Value = tickerGreatestVolume
ws.Range("Q4").Value = greatestVolume
Next ws
MsgBox ("I am complete")
End Sub

```

ChatGPT

Cleaned up version

```

Sub Variables()
    Dim greatestIncrease As Double
    Dim greatestDecrease As Double
    Dim greatestVolume As Double

    greatestIncrease = -999999999 ' Set to a very large negative number
    greatestDecrease = 999999999 ' Set to a very large positive number
    greatestVolume = 0

    For Each ws In Worksheets
        ws.Activate
        ' Setting column headers
        Range("I1").Value = "Ticker"
        Range("J1").Value = "Yearly Change"
    
```

```

Range("K1").Value = "Percent Change"
Range("L1").Value = "Total Stock Volume"
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"
Columns("I:L").AutoFit

```

```

Dim ticker As String
Dim time As Date
Dim opening As Currency
Dim high As Currency
Dim low As Currency
Dim closing As Currency
Dim volume As Long
Dim lastrow As Long
Dim totalvolume As Double 'Use Double for Currency value
Dim beginning As Long

```

```

lastrow = ws.Cells(Rows.Count, "A").End(xlUp).Row
totalvolume = 0
opening = Cells(2, "C").Value
beginning = 2

```

```

For i = 2 To lastrow
    If Cells(i, "A").Value = Cells(i + 1, "A").Value Then
        totalvolume = totalvolume + Cells(i, "G").Value
    Else
        totalvolume = totalvolume + Cells(i, "G").Value
        closeprice = Cells(i, "F").Value
        yearlychange = closeprice - opening
        If opening <> 0 Then
            percentagechange = (yearlychange / opening) * 100
        Else
            percentagechange = 0 ' Handle the case where opening price is zero
        End If
        Cells(beginning, "I").Value = Cells(i, "A").Value
        Cells(beginning, "J").Value = yearlychange
        Cells(beginning, "K").Value = "%" & percentagechange
    End If

```

```

Cells(beginning, "L").Value = totalvolume

If yearlychange > 0 Then
    ws.Range("J" & beginning).Interior.Color = vbGreen
ElseIf yearlychange < 0 Then
    ws.Range("J" & beginning).Interior.Color = vbRed
Else
    ws.Range("J" & beginning).Interior.Color = vbWhite
End If

' Check for greatest % increase
If percentagechange > greatestIncrease Then
    greatestIncrease = percentagechange
    tickerGreatestIncrease = Cells(i, "A").Value
End If

' Check for greatest % decrease
If percentagechange < greatestDecrease Then
    greatestDecrease = percentagechange
    tickerGreatestDecrease = Cells(i, "A").Value
End If

' Check for greatest total volume
If totalvolume > greatestVolume Then
    greatestVolume = totalvolume
    tickerGreatestVolume = Cells(i, "A").Value
End If

totalvolume = 0
opening = Cells(i + 1, "C").Value
beginning = beginning + 1
End If
Next i

'Outputs the greatest values to the summary section
ws.Range("P2").Value = tickerGreatestIncrease
ws.Range("Q2").Value = greatestIncrease / 100
ws.Range("P3").Value = tickerGreatestDecrease
ws.Range("Q3").Value = greatestDecrease / 100
ws.Range("P4").Value = tickerGreatestVolume

```

```
        ws.Range("Q4").Value = greatestVolume
    Next ws
    MsgBox ("I am complete")
End Sub
```