**Both VBA Scripts for Alphabetical Testing and Multiple Year Stock Data**

**#1**

Sub Alphabetical\_TestingThisWorkbook()

' Set up variables

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 summaryTableIndex As Integer

Dim lastRow As Long

Dim i As Long

' Set up summary table headers

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

Cells(1, 10).Value = "Yearly Change"

Cells(1, 11).Value = "Percent Change"

Cells(1, 12).Value = "Total Stock Volume"

' Initialize variables

summaryTableIndex = 2

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

ticker = Cells(2, 1).Value

openingPrice = Cells(2, 3).Value

' Loop through each row in the worksheet

For i = 2 To lastRow

' Check if we're still on the same stock

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

' Set closing price and calculate yearly and percentage change

closingPrice = Cells(i, 6).Value

yearlyChange = closingPrice - openingPrice

percentChange = yearlyChange / openingPrice

' Add to total stock volume

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

' Output results to summary table

Cells(summaryTableIndex, 9).Value = ticker

Cells(summaryTableIndex, 10).Value = yearlyChange

Cells(summaryTableIndex, 11).Value = Format(percentChange, "0.00%")

Cells(summaryTableIndex, 12).Value = totalVolume

' Reset variables for next stock

summaryTableIndex = summaryTableIndex + 1

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

openingPrice = Cells(i + 1, 3).Value

totalVolume = 0

Else

' Add to total stock volume

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

End If

Next i

End Sub

**#2**

Sub Alphabetical\_TestingWorkbook()

' Set up variables

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 summaryTableIndex As Integer

Dim lastRow As Long

Dim i As Long

Dim maxIncreaseTicker As String

Dim maxIncrease As Double

Dim maxDecreaseTicker As String

Dim maxDecrease As Double

Dim maxVolumeTicker As String

Dim maxVolume As Double

' Set up summary table headers

Cells(2, 15).Value = "Greatest % Increase"

Cells(3, 15).Value = "Greatest % Decrease"

Cells(4, 15).Value = "Greatest Total Volume"

Cells(1, 16).Value = "Ticker"

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

' Initialize variables

summaryTableIndex = 2

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

ticker = Cells(2, 1).Value

openingPrice = Cells(2, 3).Value

maxIncrease = 0

maxDecrease = 0

maxVolume = 0

' Loop through each row in the worksheet

For i = 2 To lastRow

' Check if we're still on the same stock

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

' Set closing price and calculate yearly and percentage change

closingPrice = Cells(i, 6).Value

YearlyChange = closingPrice - openingPrice

percentChange = YearlyChange / openingPrice

' Add to total stock volume

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

' Output results to summary table

Cells(summaryTableIndex, 9).Value = ticker

Cells(summaryTableIndex, 10).Value = YearlyChange

Cells(summaryTableIndex, 11).Value = Format(percentChange, "0.00%")

Cells(summaryTableIndex, 12).Value = totalVolume

' Check for maximum values

If percentChange > maxIncrease Then

maxIncrease = percentChange

maxIncreaseTicker = ticker

End If

If percentChange < maxDecrease Then

maxDecrease = percentChange

maxDecreaseTicker = ticker

End If

If totalVolume > maxVolume Then

maxVolume = totalVolume

maxVolumeTicker = ticker

End If

' Reset variables for next stock

summaryTableIndex = summaryTableIndex + 1

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

openingPrice = Cells(i + 1, 3).Value

totalVolume = 0

Else

' Add to total stock volume

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

End If

Next i

' Output greatest values to summary table

Cells(2, 16).Value = maxIncreaseTicker

Cells(2, 17).Value = Format(maxIncrease, "0.00%")

Cells(3, 16).Value = maxDecreaseTicker

Cells(3, 17).Value = Format(maxDecrease, "0.00%")

Cells(4, 16).Value = maxVolumeTicker

Cells(4, 17).Value = maxVolume

End Sub