





CHALLENGE SCRIPT

Sub LoopThroughWorksheets()

'Define Variables

Dim WS As Worksheet

'run through each worksheet

For Each WS In Worksheets

Dim ticker As String

ticker = ""

Dim open\_price As Double

open\_price = 0

Dim close\_price As Double

close\_price = 0

Dim Yearly\_change As Double

Yearly\_change = 0

Dim Percent\_Change As Double

Percent\_Change = 0

Dim Total\_Stock\_Volume As Double

Total\_Stock\_Volume = 0

Dim Summary\_Table\_Row As Long

Summary\_Table\_Row = 2

Dim Lastrow As Long

Lastrow = WS.Cells(Rows.Count, 1).End(xlUp).Row

Dim i As Long

i = 2

'Variables for Challenge

Dim Increase\_Ticker As String

Increase\_Ticker = ""

Dim Decrease\_Ticker As String

Decrease\_Ticker = ""

Dim Total\_Volume\_Ticker As String

Total\_Volume\_Ticker = ""

Dim Greatest\_Increase As Double

Greatest\_Increase = 0

Dim Greatest\_Decrease As Double

Greatest\_Decrease = 0

Dim Greatest\_Total\_Volume As Double

Greatest\_Total\_Volume = 0

Dim j As Long

j = 2

'set Column names,create summary table

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

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

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

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

'set Challenge Summary Table,names

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

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

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

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

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

'Loop Through Worksheets

For i = 2 To Lastrow

'To fix open price of the month

If WS.Cells(i, 1).Value <> WS.Cells(i - 1, 1).Value Then

open\_price = WS.Cells(i, 3).Value

End If

'To determine the total stock volume for the year

Total\_Stock\_Volume = Total\_Stock\_Volume + WS.Cells(i, 7).Value

'To see if it's the same Ticker

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

'Find Values

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

close\_price = WS.Cells(i, 6).Value

Yearly\_change = close\_price - open\_price

If open\_price = 0 Then

Percent\_Change = 0

ElseIf open\_price <> 0 Then

Percent\_Change = (Yearly\_change / open\_price)

End If

WS.Columns("K").NumberFormat = "0.00%"

'Fill the Results Table and color

WS.Cells(Summary\_Table\_Row, 9).Value = ticker

WS.Cells(Summary\_Table\_Row, 10).Value = Yearly\_change

If (Yearly\_change > 0) Then

WS.Cells(Summary\_Table\_Row, 10).Interior.ColorIndex = 4

ElseIf (Yearly\_change <= 0) Then

WS.Cells(Summary\_Table\_Row, 10).Interior.ColorIndex = 3

End If

WS.Cells(Summary\_Table\_Row, 11).Value = Percent\_Change

WS.Cells(Summary\_Table\_Row, 12).Value = Total\_Stock\_Volume

Summary\_Table\_Row = Summary\_Table\_Row + 1

'Reset Values

Yearly\_change = 0

close\_price = 0

open\_price = 0

Total\_Stock\_Volume = 0

End If

Next i

Lastrow = WS.Cells(Rows.Count, 9).End(xlUp).Row

For j = 2 To Lastrow

If WS.Cells(j, 11).Value > Greatest\_Increase Then

Greatest\_Increase = WS.Cells(j, 11).Value

Increase\_Ticker = WS.Cells(j, 9).Value

End If

If WS.Cells(j, 11).Value < Greatest\_Decrease Then

Greatest\_Decrease = WS.Cells(j, 11).Value

Decrease\_Ticker = WS.Cells(j, 9).Value

End If

If WS.Cells(j, 12).Value > Greatest\_Total\_Volume Then

Greatest\_Total\_Volume = WS.Cells(j, 12).Value

Total\_Volume\_Ticker = WS.Cells(j, 9).Value

End If

Next j

'Fill Greatest\_Values\_Table

WS.Cells(2, 17).Value = Greatest\_Increase

WS.Cells(2, 17).NumberFormat = "0.00%"

WS.Cells(3, 17).Value = Greatest\_Decrease

WS.Cells(3, 17).NumberFormat = "0.00%"

WS.Cells(4, 17).Value = Greatest\_Total\_Volume

WS.Cells(2, 16).Value = Increase\_Ticker

WS.Cells(3, 16).Value = Decrease\_Ticker

WS.Cells(4, 16).Value = Total\_Volume\_Ticker

Greatest\_Increase = 0

Greatest\_Decrease = 0

Greatest\_Total\_Volume = 0

Next WS

' Challenge

End Sub