Homework #2 VBA of Wall Street

Stock Data VBA Script

Sub WallStreet()

'Create a variable to hold the worksheet

Dim ws As Worksheet

'Loop through all the sheets in the worksheet

For Each ws In Worksheets

ws.Activate

' Find the the Last Row for each worksheet

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

'Assign header

Range("I1,P1").Value = "Ticker"

Range("J1").Value = "Yearly Change"

Range("K1").Value = "Percent Change"

Range("L1").Value = "Total Stock Volume"

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

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

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

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

'Create Variable for each value

Dim Ticker As String

Dim Tol\_Vol As String

Dim Row As Double

Dim OpenPrice As Double

Dim ClosePrice As Double

Dim YearlyChange As Double

Dim PercentChange As Double

'set Volume, open year and row

Tol\_Vol = 0

Row = 2

OpenYear = True

'Loop through all the ticker

For i = 2 To Lastrow

'Choose the same ticke

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

' Set the ticker

Ticker = Cells(i, 1).Value

' Print the ticker

Cells(Row, 9).Value = Ticker

' Add the total stock volume

Tol\_Vol = Tol\_Vol + Cells(i, 7).Value

' Print the total stock volume

Cells(Row, 12).Value = Tol\_Vol

'set close price

ClosePrice = Cells(i, 6).Value

'set yearly change

YearlyChange = ClosePrice - OpenPrice

'print Yearly change

Cells(Row, 10).Value = YearlyChange

'Set percent change

PercentChange = (YearlyChange / OpenPrice)

'print Percent Change

Cells(Row, 11).Value = PercentChange

'format number to percentage

Cells(Row, 11).NumberFormat = "0.00%"

' Find Last Row of Yearly Change column

LastRow2 = ws.Cells(Rows.Count, 9).End(xlUp).Row

' Set negative change to red and positive change to green

For J = 2 To LastRow2

If Cells(J, 10).Value >= 0 Then

Cells(J, 10).Interior.ColorIndex = 4

ElseIf Cells(J, 10).Value < 0 Then

Cells(J, 10).Interior.ColorIndex = 3

End If

Next J

' Add one to the summary table row

Row = Row + 1

' Reset the total stock volume

Tot\_Vol = 0

' Reset the Open Price

OpenYear = True

Else

' Add to the total stock volume

Tot\_Vol = Tot\_Vol + Cells(i, 7).Value

' Get the price the stock opened that year

If OpenYear And Cells(i, 3).Value <> 0 Then

OpenPrice = Cells(i, 3).Value

OpenYear = False

End If

End If

Next i

'Find last row of percent change

Lastrow3 = ws.Cells(Rows.Count, 11).End(xlUp).Row

'Loop through percent change

For Z = 2 To Lastrow3

If Cells(Z, 11).Value = Application.WorksheetFunction.Max(ws.Range("K2:K" & Lastrow3)) Then

Cells(2, 16).Value = Cells(Z, 9).Value

Cells(2, 17).Value = Cells(Z, 11).Value

ElseIf Cells(Z, 11).Value = Application.WorksheetFunction.Min(ws.Range("K2:K" & Lastrow3)) Then

Cells(3, 16).Value = Cells(Z, 9).Value

Cells(3, 17).Value = Cells(Z, 11).Value

ElseIf Cells(Z, 12).Value = Application.WorksheetFunction.Max(ws.Range("L2:L" & Lastrow3)) Then

Cells(4, 16).Value = Cells(Z, 9).Value

Cells(4, 17).Value = Cells(Z, 12).Value

End If

'Change number format to percent

Range("Q2:Q3").NumberFormat = "0.00%"

Next Z

Next ws

End Sub