Stock Data VBA Homework

**VBA Code/Logic:**

Sub StockData()

Dim WS As Worksheet

For Each WS In ActiveWorkbook.Worksheets

WS.Activate

' Determine the Last Row

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

' Add Headers

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

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

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

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

' Declare Variables

Dim Open\_Price As Double

Dim Close\_Price As Double

Dim Yearly\_Change As Double

Dim Ticker\_Name As String

Dim Percent\_Change As Double

Dim Volume As Double

Volume = 0

Dim Row As Double

Row = 2

Dim Column As Integer

Column = 1

Dim i As Long

' Setting Open Price

Open\_Price = Cells(2, Column + 2).Value

' Loop through Tickers

For i = 2 To LastRow

' Ticker Symbol Check

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

' Setting Ticker\_Name

Ticker\_Name = Cells(i, Column).Value

Cells(Row, Column + 8).Value = Ticker\_Name

' Setting Close Price

Close\_Price = Cells(i, Column + 5).Value

' Adding Yearly Change

Yearly\_Change = Close\_Price - Open\_Price

Cells(Row, Column + 9).Value = Yearly\_Change

' Adding Percent Change

If (Open\_Price = 0 And Close\_Price = 0) Then

Percent\_Change = 0

ElseIf (Open\_Price = 0 And Close\_Price <> 0) Then

Percent\_Change = 1

Else

Percent\_Change = Yearly\_Change / Open\_Price

Cells(Row, Column + 10).Value = Percent\_Change

Cells(Row, Column + 10).NumberFormat = "0.00%"

End If

' Adding Total Volume

Volume = Volume + Cells(i, Column + 6).Value

Cells(Row, Column + 11).Value = Volume

' Add to summary table

Row = Row + 1

' Open\_Price reset

Open\_Price = Cells(i + 1, Column + 2)

' Total Volume reset

Volume = 0

'If cells are the same ticker

Else

Volume = Volume + Cells(i, Column + 6).Value

End If

Next i

' Determining the Last Row of Yearly Change per WS

YCLastRow = WS.Cells(Rows.Count, Column + 8).End(xlUp).Row

' Setting Cell Colors

For j = 2 To YCLastRow

If (Cells(j, Column + 9).Value > 0 Or Cells(j, Column + 9).Value = 0) Then

Cells(j, Column + 9).Interior.ColorIndex = 10

ElseIf Cells(j, Column + 9).Value < 0 Then

Cells(j, Column + 9).Interior.ColorIndex = 3

End If

Next j

' Setting Greatest % Increase, % Decrease, and Total Volume

Cells(2, Column + 14).Value = "Greatest % Increase"

Cells(3, Column + 14).Value = "Greatest % Decrease"

Cells(4, Column + 14).Value = "Greatest Total Volume"

Cells(1, Column + 15).Value = "Ticker"

Cells(1, Column + 16).Value = "Value"

' Looking through each row to find the greatest value and its ticker

For Z = 2 To YCLastRow

If Cells(Z, Column + 10).Value = Application.WorksheetFunction.Max(WS.Range("K2:K" & YCLastRow)) Then

Cells(2, Column + 15).Value = Cells(Z, Column + 8).Value

Cells(2, Column + 16).Value = Cells(Z, Column + 10).Value

Cells(2, Column + 16).NumberFormat = "0.00%"

ElseIf Cells(Z, Column + 10).Value = Application.WorksheetFunction.Min(WS.Range("K2:K" & YCLastRow)) Then

Cells(3, Column + 15).Value = Cells(Z, Column + 8).Value

Cells(3, Column + 16).Value = Cells(Z, Column + 10).Value

Cells(3, Column + 16).NumberFormat = "0.00%"

ElseIf Cells(Z, Column + 11).Value = Application.WorksheetFunction.Max(WS.Range("L2:L" & YCLastRow)) Then

Cells(4, Column + 15).Value = Cells(Z, Column + 8).Value

Cells(4, Column + 16).Value = Cells(Z, Column + 11).Value

End If

Next Z

Next WS

End Sub