'Assignment = "Module 2"

Sub Module2()

'Declare WS as Variable and Loop the worksheets

Dim WS As Worksheet

For Each WS In ActiveWorkbook.Worksheets

WS.Activate

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

'Declare Variable as Integers and Stings

Dim TickerSymbol As String

Dim OpeningPrice As Double

Dim ClosingPrice As Double

Dim YearlyChange As Double

Dim PercentChange As Double

Dim TotalStockVolume As Double

TotalStockVolume = 0

Dim Row As Double

Row = 2

Dim Column As Integer

Column = 1

Dim i As Long

'Create New columns

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

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

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

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

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

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

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

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

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

'Declare and Set inital Value for Opening Price

OpeningPrice = Cells(2, "C").Value

'Loop through Ticker Symbol

For i = 2 To LastRow

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

TickerSymbol = Cells(i, "A").Value

Cells(Row, "I").Value = TickerSymbol

'Declare and Set inital Value for Closing Price

ClosingPrice = Cells(i, "F").Value

'Calculate Yearly Change

YearlyChange = ClosingPrice - OpeningPrice

Cells(Row, "J").Value = YearlyChange

'Calculate Percent Change

If (OpeningPrice = 0 And ClosingPrice = 0) Then

PercentChange = 0

ElseIf (OpeningPrice = 0 And ClosingPrice <> 0) Then

PercentChange = 1

Else

PercentChange = YearlyChange / OpeningPrice

Cells(Row, "K").Value = PercentChange

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

End If

'Calculate Total Stock Volume

TotalStockVolume = TotalStockVolume + Cells(i, "G").Value

Cells(Row, "L").Value = TotalStockVolume

Row = Row + 1

OpeningPrice = Cells(i + 1, "C")

TotalStockVolume = 0

Else

TotalStockVolume = TotalStockVolume + Cells(i, "G").Value

End If

Next i

'Set Color for Yearly Change

YCLastRow = WS.Cells(Rows.Count, "I").End(xlUp).Row

For j = 2 To YCLastRow

If (Cells(j, "J").Value > 0 Or Cells(j, "J").Value = 0) Then

Cells(j, "J").Interior.ColorIndex = 4

ElseIf Cells(j, "J").Value < 0 Then

Cells(j, "J").Interior.ColorIndex = 3

End If

Next j

'Calulate "Greatest % increase"

For k = 2 To YCLastRow

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

Cells(2, "P").Value = Cells(k, "I").Value

Cells(2, "Q").Value = Cells(k, "K").Value

Cells(2, "Q").NumberFormat = "0.00%"

'Calulate "Greatest % decrease"

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

Cells(3, "P").Value = Cells(k, "I").Value

Cells(3, "Q").Value = Cells(k, "K").Value

Cells(3, "Q").NumberFormat = "0.00%"

'Calulate "Greatest total volume"

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

Cells(4, "P").Value = Cells(k, "I").Value

Cells(4, "Q").Value = Cells(k, "L").Value

End If

Next k

Next WS

End Sub