Sub StockMarketAnalysis()

Dim ws As Worksheet

For Each ws In ThisWorkbook.Worksheets

' Initializing variables for calculations

Dim OpeningPrice As Double

Dim ClosingPrice As Double

Dim YearlyChange As Double

Dim PercentChange As Double

Dim TotalVolume As Double

TotalVolume = 0

Dim StartRow As Integer

StartRow = 2 ' assuming data starts from row 2

Dim TickerName As String

Dim LastRow As Long

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

' Loop through each row of data

For i = StartRow To LastRow

' Check if we are still within the same ticker symbol

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

TickerName = ws.Cells(i, 1).Value

ClosingPrice = ws.Cells(i, 6).Value

TotalVolume = TotalVolume + ws.Cells(i, 7).Value

' Calculate Yearly Change and Percent Change

YearlyChange = ClosingPrice - OpeningPrice

If OpeningPrice <> 0 Then

PercentChange = YearlyChange / OpeningPrice

Else

PercentChange = 0

End If

' Print the Ticker, Yearly Change, Percent Change, and Total Stock Volume

Dim SummaryRow As Integer

SummaryRow = ws.Cells(Rows.Count, 9).End(xlUp).Row + 1

ws.Cells(SummaryRow, 9).Value = TickerName

ws.Cells(SummaryRow, 10).Value = YearlyChange

ws.Cells(SummaryRow, 11).Value = PercentChange

ws.Cells(SummaryRow, 12).Value = TotalVolume

' Reset TotalVolume and OpeningPrice for the next ticker

TotalVolume = 0

OpeningPrice = ws.Cells(i + 1, 3).Value

Else

' Accumulate the Total Volume for the current ticker

TotalVolume = TotalVolume + ws.Cells(i, 7).Value

' If it's the first row of the current ticker, set the Opening Price

If ws.Cells(i, 3).Value <> "" And OpeningPrice = 0 Then

OpeningPrice = ws.Cells(i, 3).Value

End If

End If

Next i

' Adding Conditional Formatting

ws.Range("J2:J" & LastRow).FormatConditions.AddColorScale ColorScaleType:=3

ws.Range("J2:J" & LastRow).FormatConditions(ws.Range("J2:J" & LastRow).FormatConditions.Count).SetFirstPriority

' Set colors for the ColorScale

With ws.Range("J2:J" & LastRow).FormatConditions(1)

.ColorScaleCriteria(1).Type = xlConditionValueLowestValue

.ColorScaleCriteria(1).FormatColor.Color = 8109667 ' Red

.ColorScaleCriteria(2).Type = xlConditionValuePercentile

.ColorScaleCriteria(2).FormatColor.Color = 16777215 ' White

.ColorScaleCriteria(3).Type = xlConditionValueHighestValue

.ColorScaleCriteria(3).FormatColor.Color = 5296274 ' Green

End With

' Find the stock with the greatest % increase, % decrease, and total volume

' This part of the code would require additional logic to determine the max and min values

' and then write them to the appropriate cells

' Reset variables for next worksheet

OpeningPrice = 0

Next ws

End Sub