Sub stock\_market()

'instruct the program to loop through all files

For Each ws In Worksheets

'put in header values

ws.Cells(1, 10).Value = "ticker"

ws.Cells(1, 11).Value = "yearly change"

ws.Cells(1, 12).Value = "% change"

ws.Cells(1, 13).Value = "total volume"

'put in labels for bonus problem

ws.Cells(1, 16).Value = "ticker"

ws.Cells(1, 17).Value = "value"

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

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

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

'format width of cells

ws.Cells(2, 15).ColumnWidth = 30

'define variable ticker symbol

Dim ticker As String

'define variable yearly change

Dim yearly\_change As Double

yearly\_change = 0

'define variable percent change

Dim percent\_change As Double

percent\_change = 0

'define stock total volumes

Dim total\_volume As Double

total\_volume = 0

'define summary table row

Dim summary\_table\_row As Integer

summary\_table\_row = 2

'define last row variable

Dim last\_row As Long

last\_row = ws.Cells(Rows.Count, 1).End(xlUp).Row

'define end row and start row

Dim start\_row As Long

start\_row = 2

Dim end\_row As Long

'setup For statement to loop through all

For i = 2 To last\_row

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

'specify what the ticker value should be

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

'add the value to the total\_volume

total\_volume = total\_volume + ws.Cells(i, 7).Value

'define what the end row is

end\_row = i

'Calculate yearly change

yearly\_change = ws.Cells(end\_row, 6).Value - ws.Cells(start\_row, 3).Value

'Calculate percent yearly change

If ws.Cells(start\_row, 3).Value = 0 Then

percent\_change = 0

Else

percent\_change = (yearly\_change / ws.Cells(start\_row, 3).Value) \* 100

End If

'assign the ticker value and the total\_volume value to the summary chart

ws.Range("J" & summary\_table\_row).Value = ticker

ws.Range("M" & summary\_table\_row).Value = total\_volume

ws.Range("K" & summary\_table\_row).Value = yearly\_change

ws.Range("L" & summary\_table\_row).Value = percent\_change

'reset the total volume to 0

total\_volume = 0

'reset end\_row and start\_row

start\_row = i + 1

end\_row = 0

'add a row the the summary table row value!!

summary\_table\_row = summary\_table\_row + 1

Else

total\_volume = total\_volume + ws.Cells(i, 7).Value

End If

Next i

'define last row of summary chart

Dim last\_summary\_row As Long

last\_summary\_row = ws.Cells(Rows.Count, 10).End(xlUp).Row

For i = 2 To last\_summary\_row

If ws.Cells(i, 11).Value < 0 Then

ws.Cells(i, 11).Interior.ColorIndex = 3

Else

ws.Cells(i, 11).Interior.ColorIndex = 4

End If

Next i

'Bonus

'Determining the maximum percent change

'define maximum change value and set to 0

Dim max\_change As Double

max\_change = 0

'setup loop to run through the summary row data

For i = 2 To last\_summary\_row

'if statement comparing each value in the column to the max value

If ws.Cells(i, 12).Value > max\_change Then

'the max\_change becomes the new highest value

max\_change = ws.Cells(i, 12).Value

'set the chart cell to become the max change value

'put in the ticker value

ws.Cells(2, 16).Value = ws.Cells(i, 10).Value

Else

ws.Cells(2, 17).Value = max\_change

End If

Next i

ws.Cells(2, 17).Value = max\_change

'Determining maximum total volume

'define maximum total volume value and set to 0

Dim max\_volume As Double

max\_volume = 0

'setup loop to run through the summary row data

For i = 2 To last\_summary\_row

'if statement comparing each value in the column to the max volume

If ws.Cells(i, 13).Value > max\_volume Then

'the max\_volume becomes the new highest value

max\_volume = ws.Cells(i, 13).Value

'set the chart cell to become the max change value

ws.Cells(4, 17).Value = max\_volume

'put in the ticker value

ws.Cells(4, 16).Value = ws.Cells(i, 10).Value

Else

ws.Cells(4, 17).Value = max\_volume

End If

Next i

'Find the greatest percent decrease

'define the largest decrease

Dim max\_decrease As Double

max\_decrease = 0

'Setup loop to go through data in the summary row

For i = 2 To last\_summary\_row

If ws.Cells(i, 12).Value < max\_decrease Then

max\_decrease = ws.Cells(i, 12).Value

ws.Cells(3, 17).Value = max\_decrease

ws.Cells(3, 16).Value = ws.Cells(i, 10).Value

Else

ws.Cells(3, 17).Value = max\_decrease

End If

Next i

Next

End Sub