VBA Code for the Stock Prices

'Entry point for RibbonX button click

Sub ShowATPDialog(control As IRibbonControl)

Application.Run ("fDialog")

End Sub

'Callback for RibbonX button label

Sub GetATPLabel(control As IRibbonControl, ByRef label)

label = ThisWorkbook.Sheets("RES").Range("A10").Value

End Sub

Code for the Easy Problem

Sub Stock\_Loop()

' Create a loop through each year of stock data and grab the total amount of volume

' Display the ticker symbol to coincide with the total volume

' loop through all sheets

For Each ws In Worksheets

' Set variables for total stock volume, ticker symbols and Summary Table Row

Dim Summary\_Table\_Row As Integer

Dim Total\_Stock As Double

Dim ticker As String

Total\_Stock = 0

Summary\_Table\_Row = 2

' Determine the last row

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

' Loop through all the stocks

For i = 2 To lastrow

' Check if we are still within the same Stock

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

' Set the Ticker Symbol

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

'Add to the Stock Total

Total\_Stock = Total\_Stock + ws.Cells(i, 7).Value

'Put the Stock on a Summary Table

ws.Range("I" & Summary\_Table\_Row).Value = ticker

'Put the Stock Total on a Summary Table

ws.Range("L" & Summary\_Table\_Row).Value = Total\_Stock

'Add to the Summary Table Row

Summary\_Table\_Row = Summary\_Table\_Row + 1

'Reset the Total Stock

Total\_Stock = 0

' If they are both the same stock

Else

' Add to the Stock Total

Total\_Stock = Total\_Stock + ws.Cells(i, 7).Value

End If

Next i

Next ws

End Sub

Code for the Moderate Problem

Sub Moderate()

' Set variables for opening price, ending price, yearly change, percent change, and summary table row

Dim opening\_price As Double

Dim closing\_price As Double

Dim yearly\_change As Double

Dim percent\_change As Double

Dim Summary\_Table\_Row As Double

Summary\_Table\_Row = 2

'Determine the last row

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

' Loop through all stocks

For i = 2 To lastrow

'Check for the same stock and opening price

If Cells(i, 1).Value <> Cells(i - 1, 1).Value And Cells(i, 3).Value > 0.5 Then

opening\_price = Cells(i, 3).Value

'Check if it's still the same stock and ending price

Else

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

closing\_price = Cells(i, 6).Value

yearly\_change = closing\_price - opening\_price

Range("J" & Summary\_Table\_Row).Value = yearly\_change

percent\_change = yearly\_change / opening\_price

Range("K" & Summary\_Table\_Row).Value = percent\_change

Summary\_Table\_Row = Summary\_Table\_Row + 1

Else

End If

End If

Next i

End Sub

Code for the Hard Problem

Sub Hard()

' loop through all worksheet

For Each ws In Worksheets

' declaring variables

Dim i

Dim Summary\_Table As Double

Dim greater\_volume As Double

Dim greater\_percentage As Double

Dim least\_percentage As Double

Dim ticker As String

Dim ticker2 As String

Dim ticker3 As String

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

Summary\_Table = 2

greater\_volume = 0

greater\_percentage = 0

least\_percentage = 0

' greatest value

For i = 2 To lastrow

If ws.Cells(i, 12).Value > greater\_volume Then

greater\_volume = ws.Cells(i, 12).Value

ticker = ws.Cells(i, 9).Value

End If

' greatest percentage

If ws.Cells(i, 11).Value > greater\_percentage Then

greater\_percentage = ws.Cells(i, 11).Value

ticker2 = ws.Cells(i, 9).Value

End If

' least percentage

If ws.Cells(i, 11).Value < least\_percentage Then

least\_percentage = ws.Cells(i, 11).Value

ticker3 = ws.Cells(i, 9).Value

End If

Next i

' putting the greatest value on the table

ws.Range("p" & Summary\_Table).Value = greater\_volume

ws.Range("q" & Summary\_Table).Value = ticker

Summary\_Table = Summary\_Table + 1

' putting the greatest percentage on the table

ws.Range("p" & Summary\_Table).Value = greater\_percentage

ws.Range("q" & Summary\_Table).Value = ticker2

Summary\_Table = Summary\_Table + 1

' putting the least percentage on the table

ws.Range("p" & Summary\_Table).Value = least\_percentage

ws.Range("q" & Summary\_Table).Value = ticker3

Next ws

End Sub

Code for the changing colors

Sub yearlycolor()

' loop through all worksheets

For Each ws In Worksheets

lastrow = ws.Cells(Rows.Count, 10).End(xlUp).Row

' change colors on column j: red for negative, green for positive

For i = 2 To lastrow

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

ws.Cells(i, 10).Interior.ColorIndex = 4

Else

ws.Cells(i, 10).Interior.ColorIndex = 3

End If

Next i

Next ws

End Sub