Sub Mod\_2\_Challenge\_Pt5()

Dim ws As Worksheet

Dim lastRow As Long

Dim stockSymbolColumn As Long

Dim percentChangeColumn As Long

Dim stockVolumeColumn As Long

Dim i As Long

Dim stockSymbol As String

Dim percentChange As Double

Dim stockVolume As Double

Dim greatestIncrease As Double

Dim greatestDecrease As Double

Dim greatestVolume As Double

Dim symbolWithGreatestIncrease As String

Dim symbolWithGreatestDecrease As String

Dim symbolWithGreatestVolume As String

' Set the worksheet and column numbers

Set ws = ActiveSheet ' Change to your specific worksheet

stockSymbolColumn = 10

percentChangeColumn = 12 ' Column containing percent change

stockVolumeColumn = 7 ' Column containing stock volume

' Find the last row in the worksheet

lastRow = ws.Cells(ws.Rows.Count, stockSymbolColumn).End(xlUp).Row

' Initialize variables

greatestIncrease = 0

greatestDecrease = 0

greatestVolume = 0

' Loop through the data

For i = 2 To lastRow ' Start from row 2 assuming headers are in row 1

stockSymbol = ws.Cells(i, stockSymbolColumn).Value

percentChange = ws.Cells(i, percentChangeColumn).Value

stockVolume = ws.Cells(i, stockVolumeColumn).Value

' Calculate greatest percentage increase

If percentChange > greatestIncrease Then

greatestIncrease = percentChange

symbolWithGreatestIncrease = stockSymbol

End If

' Calculate greatest percentage decrease

If percentChange < greatestDecrease Then

greatestDecrease = percentChange

symbolWithGreatestDecrease = stockSymbol

End If

' Calculate greatest total volume

If stockVolume > greatestVolume Then

greatestVolume = stockVolume

symbolWithGreatestVolume = stockSymbol

End If

Next i

'Summary

Range("Q1") = "Ticker"

Range("R1") = "Value"

Range("P2") = "Greatest % Increase"

Range("P3") = "Greatest % Decrease"

Range("P4") = "Greatest Total Volume"

' Print results

ws.Cells(2, 18).Value = greatestIncrease & "%"

ws.Cells(2, 17).Value = symbolWithGreatestIncrease

ws.Cells(3, 18).Value = greatestDecrease & "%"

ws.Cells(3, 17).Value = symbolWithGreatestDecrease

ws.Cells(4, 18).Value = greatestVolume

ws.Cells(4, 17).Value = symbolWithGreatestVolume

Columns("P").ColumnWidth = 20

Columns("R").ColumnWidth = 13

End Sub