**VBA Homework**

**Part One: VBA Script**

|  |
| --- |
| Sub StockData() |
|  |
|  |
|  | Dim WS As Worksheet |
|  | For Each WS In ActiveWorkbook.Worksheets |
|  | WS.Activate |
|  |  |
|  | LastRow = WS.Cells(Rows.Count, 1).End(xlUp).Row |
|  |  |
|  |  |
|  | Cells(1, "I").Value = "Ticker" |
|  | Cells(1, "J").Value = "Yearly Change" |
|  | Cells(1, "K").Value = "Percent Change" |
|  | Cells(1, "L").Value = "Total Stock Volume" |
|  |  |
|  | Dim Open\_Price As Double |
|  | Dim Close\_Price As Double |
|  | Dim Yearly\_Change As Double |
|  | Dim Ticker\_Name As String |
|  | Dim Percent\_Change As Double |
|  | Dim Volume As Double |
|  | Volume = 0 |
|  | Dim Row As Double |
|  | Row = 2 |
|  | Dim Column As Integer |
|  | Column = 1 |
|  | Dim i As Long |
|  |  |
|  |  |
|  | Open\_Price = Cells(2, Column + 2).Value |
|  |  |
|  |  |
|  | For i = 2 To LastRow |
|  |  |
|  | If Cells(i + 1, Column).Value <> Cells(i, Column).Value Then |
|  | ' Set Ticker name |
|  | Ticker\_Name = Cells(i, Column).Value |
|  | Cells(Row, Column + 8).Value = Ticker\_Name |
|  | ' Set Close Price |
|  | Close\_Price = Cells(i, Column + 5).Value |
|  | ' Add Yearly Change |
|  | Yearly\_Change = Close\_Price - Open\_Price |
|  | Cells(Row, Column + 9).Value = Yearly\_Change |
|  |  |
|  | If (Open\_Price = 0 And Close\_Price = 0) Then |
|  | Percent\_Change = 0 |
|  | ElseIf (Open\_Price = 0 And Close\_Price <> 0) Then |
|  | Percent\_Change = 1 |
|  | Else |
|  | Percent\_Change = Yearly\_Change / Open\_Price |
|  | Cells(Row, Column + 10).Value = Percent\_Change |
|  | Cells(Row, Column + 10).NumberFormat = "0.00%" |
|  | End If |
|  | ' Add Total Volumn |
|  | Volume = Volume + Cells(i, Column + 6).Value |
|  | Cells(Row, Column + 11).Value = Volume |
|  |  |
|  | Row = Row + 1 |
|  |  |
|  | Open\_Price = Cells(i + 1, Column + 2) |
|  |  |
|  | Volume = 0 |
|  |  |
|  | Else |
|  | Volume = Volume + Cells(i, Column + 6).Value |
|  | End If |
|  | Next i |
|  |  |
|  |  |
|  | YCLastRow = WS.Cells(Rows.Count, Column + 8).End(xlUp).Row |
|  |  |
|  | For j = 2 To YCLastRow |
|  | If (Cells(j, Column + 9).Value > 0 Or Cells(j, Column + 9).Value = 0) Then |
|  | Cells(j, Column + 9).Interior.ColorIndex = 10 |
|  | ElseIf Cells(j, Column + 9).Value < 0 Then |
|  | Cells(j, Column + 9).Interior.ColorIndex = 3 |
|  | End If |
|  | Next j |
|  |  |
|  |  |
|  | Cells(2, Column + 14).Value = "Greatest % Increase" |
|  | Cells(3, Column + 14).Value = "Greatest % Decrease" |
|  | Cells(4, Column + 14).Value = "Greatest Total Volume" |
|  | Cells(1, Column + 15).Value = "Ticker" |
|  | Cells(1, Column + 16).Value = "Value" |
|  |  |
|  | For Z = 2 To YCLastRow |
|  | If Cells(Z, Column + 10).Value = Application.WorksheetFunction.Max(WS.Range("K2:K" & YCLastRow)) Then |
|  | Cells(2, Column + 15).Value = Cells(Z, Column + 8).Value |
|  | Cells(2, Column + 16).Value = Cells(Z, Column + 10).Value |
|  | Cells(2, Column + 16).NumberFormat = "0.00%" |
|  | ElseIf Cells(Z, Column + 10).Value = Application.WorksheetFunction.Min(WS.Range("K2:K" & YCLastRow)) Then |
|  | Cells(3, Column + 15).Value = Cells(Z, Column + 8).Value |
|  | Cells(3, Column + 16).Value = Cells(Z, Column + 10).Value |
|  | Cells(3, Column + 16).NumberFormat = "0.00%" |
|  | ElseIf Cells(Z, Column + 11).Value = Application.WorksheetFunction.Max(WS.Range("L2:L" & YCLastRow)) Then |
|  | Cells(4, Column + 15).Value = Cells(Z, Column + 8).Value |
|  | Cells(4, Column + 16).Value = Cells(Z, Column + 11).Value |
|  | End If |
|  | Next Z |
|  |  |
|  | Next WS |
|  |  |
|  | End Sub  **Part Two: Stock Year Screenshots**  **2014**  **Table, Excel  Description automatically generated**    **2015**  **Application, table, Excel  Description automatically generated**  **2016**  **Table, Excel  Description automatically generated** |