**module1 for VBA chalenge 2**

**Sub module1\_for\_VBA\_Chalenge\_2()**

**'==========================Start Global declarartion============**

**' Set an initial variable for holding the ticker**

**Dim Ticker As String**

**' per each ticker Set all initials variables for holding the yearly change ,percentage\_change,Total volume**

**Dim Yearly\_change, percentage\_change, Total\_volume, open\_value, close\_value As Double**

**'===========================Start Initiation =============**

**' initiate the value of variables**

**open\_value = 0**

**close\_value = 0**

**Yearly\_change = 0**

**percentage\_change = 0**

**Total\_volume = 0**

**'==========================Start Print====================**

**' Print the ticker in the Summary Table**

**Range("I" & 1).Value = "Ticker"**

**' Print the yearly change in the Summary Table**

**Range("J" & 1).Value = "Yearly\_change"**

**' Print the percentage change in the Summary Table**

**Range("K" & 1).Value = "percentage\_change"**

**' Print the total volume to the Summary Table**

**Range("L" & 1).Value = "Total\_volume"**

**'==========================Start internal declarartion============**

**' Keep track of the location for each ticker in the summary table**

**Dim Summary\_Table\_Row As Integer**

**Summary\_Table\_Row = 2**

**' Keep track of the location of the first open value for each ticker**

**Dim K As Double**

**Dim j As Double**

**j = 2**

**K = 2**

**' Counts the number of rows**

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

**'============================Start fct =================**

**' Loop through all ticker purchases**

**For i = 2 To lastrow**

**' Check if we are still within the same ticker, if it is not...**

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

**' Set the new value of ticker and it s close\_value**

**Ticker = Cells(i, 1).Value**

**close\_value = Cells(i, 6).Value**

**' Add the Total volume**

**Total\_volume = Total\_volume + Cells(i, 7).Value**

**Yearly\_change = close\_value - open\_value**

**percentage\_change = Yearly\_change / open\_value**

**' Print the ticker in the Summary Table**

**Range("I" & Summary\_Table\_Row).Value = Ticker**

**' Print the yearly change in the Summary Table**

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

**' Print the percentage change in the Summary Table**

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

**' Print the Total\_volume in the Summary Table**

**Range("L" & Summary\_Table\_Row).Value = Total\_volume**

**'=== color the cell of yearly change with red if the value is negative ,else color it with green ====**

**If Yearly\_change < 0 Then**

**Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 3 ' Red**

**Else**

**Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 4 ' Green**

**End If**

**If percentage\_change < 0 Then**

**Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 3 ' Red**

**Else**

**Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 4 ' Green**

**End If**

**'======================================================**

**' Add one to the summary table row**

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

**' Reset the differents variables**

**Total\_volume = 0**

**Yearly\_change = 0**

**percentage\_change = 0**

**K = i + 1**

**' If the cell immediately following a row is the same ticker...**

**Else**

**' Put the first open value in a variable**

**open\_value = Cells(K, 3).Value**

**' total of the volume per ticker during this year**

**Total\_volume = Total\_volume + Cells(i, 7).Value**

**End If**

**'======================================================**

**Next i**

**End Sub**