

## module1 for VBA challenge 2

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Sub module1_for_VBA_Challenge_2()
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'=====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
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'=====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 its 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

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' Reset the different 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