```
Option Explicit
Sub VBAChallenge2()
    Dim ws As Worksheet
    Dim ticker As String
    Dim yearlyChange As Double
    Dim PercentChange As Double
    'Add header names to columns I, J, K, and L to create Output Table
   For Each ws In ThisWorkbook. Worksheets
        With ws
            .Cells(1, 9).Value = "Ticker"
            .Cells(1, 10).Value = "YearlyChange"
            .Cells(1, 11).Value = "PercentChange"
            .Cells(1, 12).Value = "TotalStockVolume"
            .Cells(1, 15).Value = "Ticker"
.Cells(1, 16).Value = "Value"
        End With
   Next ws
    ' Extract unique tickers
    Dim uniqueTickers As Object
        Set uniqueTickers = CreateObject("Scripting.Dictionary")
    'Loop through each worksheet in the Workbook
    For Each ws In ThisWorkbook. Worksheets
        Dim lastRow As Long
        lastRow = ws.Cells(ws.Rows.Count, "A").End(xlUp).row
        ' Extract ticker symbols from each worksheet
        Dim cell As Range
        For Each cell In ws.Range("A2:A" & lastRow)
            If Not uniqueTickers.Exists(cell.Value) And cell.Value <> "" Then
                uniqueTickers.Add cell.Value, Nothing
            End If
        Next cell
        'Output unique ticker symbols to respective worksheet
        ws.Columns("I:I").Clear
        ws.Range("I1").Value = "Unique Tickers"
        Dim i As Integer
        Dim Key As Variant
        For Each Key In uniqueTickers. Keys
            ws.Cells(i, "I").Value = Key
            i = i + 1
        Next Key
        Set uniqueTickers = CreateObject("Scripting.Dictionary")
   Next ws
     ' Calculate Yearly Change and populate Output table
    Dim openPrice As Double
    Dim closePrice As Double
    Dim priceDifference As Double
    For Each ws In ThisWorkbook.Worksheets
        lastRow = ws.Cells(ws.Rows.Count, "I").End(xlUp).row
        For i = 2 To lastRow
            ticker = ws.Cells(i, "I").Value
            openPrice = ws.Cells(i, "C").Value
closePrice = ws.Cells(i, "F").Value
            priceDifference = closePrice - openPrice
            ws.Cells(i, "J").Value = priceDifference
        Next i
   Next ws
      ' Calculate Yearly Percent Change and populate Output table
    For Each ws In ThisWorkbook.Worksheets
        lastRow = ws.Cells(ws.Rows.Count, "I").End(xlUp).row
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For i = 2 To lastRow
          ticker = ws.Cells(i, "I").Value
          openPrice = ws.Cells(i, "C").Value
closePrice = ws.Cells(i, "F").Value
          If openPrice <> 0 And closePrice <> 0 Then
               PercentChange = ((closePrice - openPrice) / openPrice) * 100
               ws.Cells(i, "K").Value = PercentChange
ws.Cells(i, "K").NumberFormat = "0.00%"
      Next i
 Next ws
  ' ApplyConditionalFormatting to values in Yearly Change
 Dim row As Integer
 For Each ws In ThisWorkbook.Worksheets
      lastRow = ws.Cells(ws.Rows.Count, "I").End(xlUp).row
      For row = 2 To lastRow
          If ws.Cells(row, 10).Value \geq= 0 Then
               ws.Cells(row, 10).Interior.Color = RGB(0, 255, 0) ' Green color
               ws.Cells(row, 10).Interior.Color = RGB(255, 0, 0) ' Red color
          End If
      Next row
 Next ws
    ApplyConditionalFormatting to values in Percent Change
 For Each ws In ThisWorkbook.Worksheets
      lastRow = ws.Cells(ws.Rows.Count, "I").End(xlUp).row
      For row = 2 To lastRow
          If ws.Cells(row, 11).Value >= 0# Then
               ws.Cells(row, 11).Interior.Color = RGB(0, 255, 0) ' Green color
          Else
               ws.Cells(row, 11).Interior.Color = RGB(255, 0, 0) ' Red color
          End If
      Next row
 Next ws
' Calculate Total Volume and populate Output table - Couldn't get to populate field.
  Dim totalSum As Long
  Dim tickersymbol As Variant
  Dim TotalStockVolume As Long
 For Each ws In ThisWorkbook.Worksheets
      lastRow = ws.Cells(ws.Rows.Count, "A").End(xlUp).row
      For i = 2 To lastRow ' Assuming row 1 is header
          ticker = ws.Cells(i, "A").Value
      Next i
      ' Calculate total sum for each unique ticker
 For Each tickersymbol In uniqueTickers
       If TotalStockVolume = TotalStockVolume + ws.Cells(i, 7).Value Then
          ws.Cells("L").Value = TotalStockVolume
               i = i + 1
               TotalStockVolume = 0
          Else
               TotalStockVolume = TotalStockVolume + ws.Cells(i, 7).Value
               ws.Cells(i, "L").Value = TotalStockVolume
               ws.Cells(ws.Rows.Count, "L").End(xlUp).Offset(1, 0).Value = ticker ws.Cells(ws.Rows.Count, "L").End(xlUp).Offset(0, 1).Value = totalSum
          End If
      Next tickersymbol
 Next ws
```

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