

```

Sub Calculate_Stock_Stats():
' variable to keep track of current ticker symbol
Dim ticker As String

' variable to keep track of number of tickers for each worksheet
Dim number_tickers As Integer

' variable to keep track of the last row in each worksheet.
Dim lastRowState As Long

' variable to keep track of opening price for specific year
Dim opening_price As Double

' variable to keep track of closing price for specific year
Dim closing_price As Double

' variable to keep track of yearly change
Dim yearly_change As Double

' variable to keep track of percent change
Dim percent_change As Double

' variable to keep track of total stock volume
Dim total_stock_volume As Double

' variable to keep track of greatest percent increase value for specific year.
Dim greatest_percent_increase As Double

' variable to keep track of the ticker that has the greatest percent increase.
Dim greatest_percent_increase_ticker As String

' variable to keep track of the greatest percent decrease value for specific year.
Dim greatest_percent_decrease As Double

' variable to keep track of the ticker that has the greatest percent decrease.
Dim greatest_percent_decrease_ticker As String

' variable to keep track of the greatest stock volume value for specific year.
Dim greatest_stock_volume As Double

' variable to keep track of the ticker that has the greatest stock volume.
Dim greatest_stock_volume_ticker As String

' loop over each worksheet in the workbook
For Each ws In Worksheets

    ' Make the worksheet active.
    ws.Activate

    ' Find the last row of each worksheet
    lastRowState = ws.Cells(Rows.Count, "A").End(xlUp).Row

    ' Add header columns for each worksheet
    ws.Range("I1").Value = "Ticker"
    ws.Range("J1").Value = "Yearly Change"
    ws.Range("K1").Value = "Percent Change"
    ws.Range("L1").Value = "Total Stock Volume"

    ' Initialize variables for each worksheet.
    number_tickers = 0
    ticker = ""
    yearly_change = 0
    opening_price = 0
    percent_change = 0
    total_stock_volume = 0

    ' Skipping the header row, loop through the list of tickers.
    For i = 2 To lastRowState

        ' Get the value of the ticker symbol we are currently calculating for.
        ticker = Cells(i, 1).Value
    
```

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' Get the start of the year opening price for the ticker.
If opening_price = 0 Then
    opening_price = Cells(i, 3).Value
End If

' Add up the total stock volume values for a ticker.
total_stock_volume = total_stock_volume + Cells(i, 7).Value

' Run this if we get to a different ticker in the list.
If Cells(i + 1, 1).Value <> ticker Then
    ' Increment the number of tickers when we get to a different ticker in the list.
    number_tickers = number_tickers + 1
    Cells(number_tickers + 1, 9) = ticker

    ' Get the end of the year closing price for ticker
    closing_price = Cells(i, 6)

    ' Get yearly change value
    yearly_change = closing_price - opening_price

    ' Add yearly change value to the appropriate cell in each worksheet.
    Cells(number_tickers + 1, 10).Value = yearly_change

    ' If yearly change value is greater than 0, shade cell green.
    If yearly_change > 0 Then
        Cells(number_tickers + 1, 10).Interior.ColorIndex = 4
    ' If yearly change value is less than 0, shade cell red.
    ElseIf yearly_change < 0 Then
        Cells(number_tickers + 1, 10).Interior.ColorIndex = 3
    ' If yearly change value is 0, shade cell yellow.
    Else
        Cells(number_tickers + 1, 10).Interior.ColorIndex = 6
    End If

    ' Calculate percent change value for ticker.
    If opening_price = 0 Then
        percent_change = 0
    Else
        percent_change = (yearly_change / opening_price)
    End If

    ' Format the percent_change value as a percent.
    Cells(number_tickers + 1, 11).Value = Format(percent_change, "Percent")

    ' Uncomment the following for color shading of percent change column.
    ' If percent change value is greater than 0, shade cell green.
    ' If percent_change > 0 Then
    '     Cells(number_tickers + 1, 11).Interior.ColorIndex = 4
    ' If percent change value is less than 0, shade cell red.
    ' ElseIf percent_change < 0 Then
    '     Cells(number_tickers + 1, 11).Interior.ColorIndex = 3
    ' If percent change value is 0, shade cell yellow.
    ' Else
    '     Cells(number_tickers + 1, 11).Interior.ColorIndex = 6
    ' End If

    ' Set opening price back to 0 when we get to a different ticker in the list.
    opening_price = 0

    ' Add total stock volume value to the appropriate cell in each worksheet.
    Cells(number_tickers + 1, 12).Value = total_stock_volume

    ' Set total stock volume back to 0 when we get to a different ticker in the list.
    total_stock_volume = 0
End If

```

Next i

' Add section to display greatest percent increase, greatest percent decrease, and greatest total

volume for each year.

```
Range("O2").Value = "Greatest % Increase"
Range("O3").Value = "Greatest % Decrease"
Range("O4").Value = "Greatest Total Volume"
Range("P1").Value = "Ticker"
Range("Q1").Value = "Value"
```

```
' Get the last row
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lastRowState = ws.Cells(Rows.Count, "I").End(xlUp).Row
```

```
' Initialize variables and set values of variables initially to the first row in the list.
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```
greatest_percent_increase = Cells(2, 11).Value
greatest_percent_increase_ticker = Cells(2, 9).Value
greatest_percent_decrease = Cells(2, 11).Value
greatest_percent_decrease_ticker = Cells(2, 9).Value
greatest_stock_volume = Cells(2, 12).Value
greatest_stock_volume_ticker = Cells(2, 9).Value
```

```
' skipping the header row, loop through the list of tickers.
```

```
For i = 2 To lastRowState
```

```
    ' Find the ticker with the greatest percent increase.
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```
    If Cells(i, 11).Value > greatest_percent_increase Then
        greatest_percent_increase = Cells(i, 11).Value
        greatest_percent_increase_ticker = Cells(i, 9).Value
    End If
```

```
    ' Find the ticker with the greatest percent decrease.
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```
    If Cells(i, 11).Value < greatest_percent_decrease Then
        greatest_percent_decrease = Cells(i, 11).Value
        greatest_percent_decrease_ticker = Cells(i, 9).Value
    End If
```

```
    ' Find the ticker with the greatest stock volume.
```

```
    If Cells(i, 12).Value > greatest_stock_volume Then
        greatest_stock_volume = Cells(i, 12).Value
        greatest_stock_volume_ticker = Cells(i, 9).Value
    End If
```

```
Next i
```

```
' Add the values for greatest percent increase, decrease, and stock volume to each worksheet.
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```
Range("P2").Value = Format(greatest_percent_increase_ticker, "Percent")
Range("Q2").Value = Format(greatest_percent_increase, "Percent")
Range("P3").Value = Format(greatest_percent_decrease_ticker, "Percent")
Range("Q3").Value = Format(greatest_percent_decrease, "Percent")
Range("P4").Value = greatest_stock_volume_ticker
Range("Q4").Value = greatest_stock_volume
```

```
Next ws
```

```
End Sub
```