Sub AllStocksAnalysisRefactored()

Dim startTime As Single

Dim endTime As Single

yearValue = InputBox("What year would you like to run the analysis on?")

startTime = Timer

'Format the output sheet on All Stocks Analysis worksheet

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stocks (" + yearValue + ")"

'Create a header row

Cells(3, 1).Value = "Ticker"

Cells(3, 2).Value = "Total Daily Volume"

Cells(3, 3).Value = "Return"

'Initialize array of all tickers

Dim tickers(12) As String

tickers(0) = "AY"

tickers(1) = "CSIQ"

tickers(2) = "DQ"

tickers(3) = "ENPH"

tickers(4) = "FSLR"

tickers(5) = "HASI"

tickers(6) = "JKS"

tickers(7) = "RUN"

tickers(8) = "SEDG"

tickers(9) = "SPWR"

tickers(10) = "TERP"

tickers(11) = "VSLR"

'Activate data worksheet

Worksheets(yearValue).Activate

'Get the number of rows to loop over

RowCount = Cells(Rows.Count, "A").End(xlUp).Row

'1a) Create a ticker Index

tickerIndex = 0

'1b) Create three output arrays

Dim tickerVolumes(12) As Long

Dim tickerStartingPrices(12) As Single

Dim tickerEndingPrices(12) As Single

''2a) Create a for loop to initialize the tickerVolumes to zero.

' If the next row’s ticker doesn’t match, increase the tickerIndex.

For i = 0 To 11

tickerVolumes(i) = 0

tickerStartingPrices(i) = 0

tickerEndingPrices(i) = 0

Next i

''2b) Loop over all the rows in the spreadsheet.

For i = 2 To RowCount

'3a) Increase volume for current ticker

tickerVolumes(tickerIndex) = tickerVolumes(tickerIndex) + Cells(i, 8).Value

'3b) Check if the current row is the first row with the selected tickerIndex.

'If Then

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i - 1, 1).Value <> tickers(tickerIndex) Then

tickerStartingPrices(tickerIndex) = Cells(i, 6).Value

End If

'3c) check if the current row is the last row with the selected ticker

'If Then

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i + 1, 1).Value <> tickers(tickerIndex) Then

tickerEndingPrices(tickerIndex) = Cells(i, 6).Value

End If

'3d Increase the tickerIndex.

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i + 1, 1).Value <> tickers(tickerIndex) Then

tickerIndex = tickerIndex + 1

End If

Next i

'4) Loop through your arrays to output the Ticker, Total Daily Volume, and Return.

For i = 0 To 11

Worksheets("All Stocks Analysis").Activate

Cells(4 + i, 1).Value = tickers(i)

Cells(4 + i, 2).Value = tickerVolumes(i)

Cells(4 + i, 3).Value = tickerEndingPrices(i) / tickerStartingPrices(i) - 1

Next i

'Formatting

Worksheets("All Stocks Analysis").Activate

Range("A3:C3").Font.FontStyle = "Bold"

Range("A3:C3").Borders(xlEdgeBottom).LineStyle = xlContinuous

Range("B4:B15").NumberFormat = "#,##0"

Range("C4:C15").NumberFormat = "0.0%"

Columns("B").AutoFit

dataRowStart = 4

dataRowEnd = 15

For i = dataRowStart To dataRowEnd

If Cells(i, 3) > 0 Then

Cells(i, 3).Interior.Color = vbGreen

Else

Cells(i, 3).Interior.Color = vbRed

End If

Next i

endTime = Timer

MsgBox "This code ran in " & (endTime - startTime) & " seconds for the year " & (yearValue)

End Sub