Sub StockMarket\_Analysis()

'Define all variables

'--------------------------------------------------

'Define a variable for Ticker

Dim Ticker As String

'Define a variable for year open

Dim year\_open As Double

'Define avariable for year close

Dim year\_close As Double

'Define a variable for yearly change

Dim Yearly\_Change As Double

'Define a variable for total stock volume

Dim Total\_Stock\_Volume As Double

'Define a variable for percent change

Dim Percent\_Change As Double

'Define a variable to set up a row to start

Dim start\_data As Integer

'Define variable of the worksheet to excute the code in all work sheet at once in the workbook

Dim ws As Worksheet

' Initiate or loop in all worksheet to excute the code once

'--------------------------------------------------

For Each ws In Worksheets

'Assign a column header for every task we are going perform

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = "Yearly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Total Stock Volume"

'Assign intiger for the loop to start

start\_data = 2

previous\_i = 1

Total\_Stock\_Volume = 0

'Go to the last row of coumn A

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

'For each Ticker summrize and loop the yearly change, percent change, and total stock volume

For i = 2 To EndRow

'If Tickersymbol change or not equal to the previous one excute to record

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

'Get the Tickersymbol

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

'Intiate the variable to go to the next Ticker Alphabet

previous\_i = previous\_i + 1

' Get the value first day open form the column 3 or "C" and last day close of the year on column 6 or "F"

year\_open = ws.Cells(previous\_i, 3).Value

year\_close = ws.Cells(i, 6).Value

' A for loop to sum the total stock volume using vol which is found in column 7 or "G"

For j = previous\_i To i

Total\_Stock\_Volume = Total\_Stock\_Volume + ws.Cells(j, 7).Value

Next j

'When the loop get the value zero open the data

If year\_open = 0 Then

Percent\_Change = year\_close

Else

Yearly\_Change = year\_close - year\_open

Percent\_Change = Yearly\_Change / year\_open

End If

'--------------------------------------------------

'Get the values in the worksheet summery table

ws.Cells(start\_data, 9).Value = Ticker

ws.Cells(start\_data, 10).Value = Yearly\_Change

ws.Cells(start\_data, 11).Value = Percent\_Change

'Use percentage format

ws.Cells(start\_data, 11).NumberFormat = "0.00%"

ws.Cells(start\_data, 12).Value = Total\_Stock\_Volume

'In the data summery when the first row task completed go to the next row

start\_data = start\_data + 1

'Get back the variable to zero

Total\_Stock\_Volume = 0

Yearly\_Change = 0

Percent\_Change = 0

'Move i number to variable previous\_i

previous\_i = i

End If

'Done the loop

Next i

'The second summery table

'--------------------------------------------------

'Go to the last row of column k

kEndRow = ws.Cells(Rows.Count, "K").End(xlUp).Row

'Define variable to initiate the second summery table value

Increase = 0

Decrease = 0

Greatest = 0

'find max/min for percentage change and the max volume Loop

For k = 3 To kEndRow

'Define previous increment to check

last\_k = k - 1

'Define current row for percentage

current\_k = ws.Cells(k, 11).Value

'Define Previous row for percentage

prevous\_k = ws.Cells(last\_k, 11).Value

'greatest total volume row

volume = ws.Cells(k, 12).Value

'Prevous greatest volume row

prevous\_vol = ws.Cells(last\_k, 12).Value

'--------------------------------------------------

'Find the increase

If Increase > current\_k And Increase > prevous\_k Then

Increase = Increase

'define name for increase percentage

'increase\_name = ws.Cells(k, 9).Value

ElseIf current\_k > Increase And current\_k > prevous\_k Then

Increase = current\_k

'define name for increase percentage

increase\_name = ws.Cells(k, 9).Value

ElseIf prevous\_k > Increase And prevous\_k > current\_k Then

Increase = prevous\_k

'define name for increase percentage

increase\_name = ws.Cells(last\_k, 9).Value

End If

'--------------------------------------------------

'Find the decrease

If Decrease < current\_k And Decrease < prevous\_k Then

'Define decrease as decrease

Decrease = Decrease

'Define name for increase percentage

ElseIf current\_k < Increase And current\_k < prevous\_k Then

Decrease = current\_k

decrease\_name = ws.Cells(k, 9).Value

ElseIf prevous\_k < Increase And prevous\_k < current\_k Then

Decrease = prevous\_k

decrease\_name = ws.Cells(last\_k, 9).Value

End If

'--------------------------------------------------

'Find the greatest volume

If Greatest > volume And Greatest > prevous\_vol Then

Greatest = Greatest

'define name for greatest volume

'greatest\_name = ws.Cells(k, 9).Value

ElseIf volume > Greatest And volume > prevous\_vol Then

Greatest = volume

'define name for greatest volume

greatest\_name = ws.Cells(k, 9).Value

ElseIf prevous\_vol > Greatest And prevous\_vol > volume Then

Greatest = prevous\_vol

'define name for greatest volume

greatest\_name = ws.Cells(last\_k, 9).Value

End If

Next k

'--------------------------------------------------

' Assign names for greatest increase,greatest decrease, and greatest volume

ws.Range("N1").Value = "Column Name"

ws.Range("N2").Value = "Greatest % Increase"

ws.Range("N3").Value = "Greatest % Decrease"

ws.Range("N4").Value = "Greatest Total Volume"

ws.Range("O1").Value = "Ticker Name"

ws.Range("P1").Value = "Value"

'Get for greatest increase, greatest increase, and greatest volume Ticker name

ws.Range("O2").Value = increase\_name

ws.Range("O3").Value = decrease\_name

ws.Range("O4").Value = greatest\_name

ws.Range("P2").Value = Increase

ws.Range("P3").Value = Decrease

ws.Range("P4").Value = Greatest

'Greatest increase and decrease in percentage format

ws.Range("P2").NumberFormat = "0.00%"

ws.Range("P3").NumberFormat = "0.00%"

'--------------------------------------------------

' Conditional formatting columns colors

'The end row for column J

jEndRow = ws.Cells(Rows.Count, "J").End(xlUp).Row

For j = 2 To jEndRow

'if greater than or less than zero

If ws.Cells(j, 10) > 0 Then

ws.Cells(j, 10).Interior.ColorIndex = 4

Else

ws.Cells(j, 10).Interior.ColorIndex = 3

End If

Next j

'Excute to next worksheet

Next ws

'--------------------------------------------------

End Sub