Microsoft Excel VBA and Macros

# **Project 2: User Interaction with VBA & Macros**

In this project we’ll start with creating three macros related with different types of sorting. Then we move towards adding a user interactive box with the help of VBA and then implementing the procedure with respect to the input given by user.

## Step 1: Create Different Sorting Algorithms

### Creating Division Sort

*Sub DivisionSort()*

*'*

*' Sort List by Division Ascending*

*'*

*Selection.Sort Key1:=Range("A4"), Order1:=xlAscending, Header:=xlGuess, \_*

*OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom, \_*

*DataOption1:=xlSortNormal*

*End Sub*

### Creating Category Sort

*Sub CategorySort()*

*'*

*' Sort List by Category Ascending*

*'*

*Selection.Sort Key1:=Range("B4"), Order1:=xlAscending, Header:=xlGuess, \_*

*OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom, \_*

*DataOption1:=xlSortNormal*

*End Sub*

### 1.3 Creating Total Sort

*Public Sub SortInput()*

*Dim userinput As String*

*Dim promtMSG As String*

*Dim tryagain As Integer*

*promtMSG = "Enter a numerical value for sorting option .... " & vbCrLf & \_*

*"1 --- Sort by Division" & vbCrLf & \_*

*"2 --- Sort by Category" & vbCrLf & \_*

*"3 --- Sort by Total "*

*userinput = InputBox(promtMSG)*

*If userinput = "1" Then*

*DivisionSort*

*ElseIf userinput = "2" Then*

*CategorySort*

*ElseIf userinput = "3" Then*

*TotalSort*

*Else*

*tryagain = MsgBox("Invalid input, Try Again!", vbYesNo)*

*If tryagain = 6 Then*

*SortInput*

*End If*

*End If*

*End Sub*

*Sub TotalSort()*

*'*

*' Sort List by Total Sales Ascending*

*'*

*Selection.Sort Key1:=Range("F4"), Order1:=xlAscending, Header:=xlGuess, \_*

*OrderCustom:=1, MatchCase:=False, Orientation:=xlTopToBottom, \_*

*DataOption1:=xlSortNormal*

*End Sub*

## Step 2: Create A Final Sorting VBA Code with User Interaction

## Step 3: Apply Macros

* Add a button to use the user-interactive sorting options.

## Step 4: Save Macros

* Click Save As > Change File Type > Save as Macros Enabled Worksheets