VBA Code Documentation

Module: ThisWorkbook.cls

Full Code:

Module: Sheet1.cls

Full Code:

Module: Module1.bas

Functions and Subroutines:

Name	Parameters
PreprocessData	

Variables:

Name	Туре
ws	Worksheet
lastRow	Long
i	Long
rowDict	Object
tempRow	String
cellValue	Variant

Comments:

Set the worksheet Change to your sheet name Find the last used row and column
Initialize the dictionary
Loop through each row from bottom to top to avoid skipping rows after deletion
Loop through each cell in the row
Check if the cell is empty or not an integer

Build the row string Check for duplicate rows

Logic:

For i = lastRow To 1 Step -1

For j = 1 To lastCol

If IsEmpty(cellValue) Or Not IsNumeric(cellValue) Or cellValue <> Int(cellValue) Then ws.Rows(i).Delete

If rowDict.exists(tempRow) Then ws.Rows(i).Delete

Full Code:

```
Attribute VB_Name = "Module1"
Sub PreprocessData()
Dim ws As Worksheet
Dim lastRow As Long, lastCol As Long
Dim i As Long, j As Long
Dim rowDict As Object
Dim tempRow As String
Dim cellValue As Variant
' Set the worksheet
Set ws = ThisWorkbook.Sheets("Sheet1") ' Change to your sheet name
' Find the last used row and column
lastRow = ws.Cells(ws.Rows.Count, 1).End(xlUp).row
lastCol = ws.Cells(1, ws.Columns.Count).End(xlToLeft).Column
' Initialize the dictionary
Set rowDict = CreateObject("Scripting.Dictionary")
' Loop through each row from bottom to top to avoid skipping rows after deletion
For i = lastRow To 1 Step -1
tempRow = ""
' Loop through each cell in the row
For j = 1 To lastCol
cellValue = ws.Cells(i, j).value
' Check if the cell is empty or not an integer
If IsEmpty(cellValue) Or Not IsNumeric(cellValue) Or cellValue <> Int(cellValue) Then
ws.Rows(i).Delete
GoTo NextRow
End If
' Build the row string
tempRow = tempRow & cellValue & Chr(0)
Next j
' Check for duplicate rows
If rowDict.exists(tempRow) Then
ws.Rows(i).Delete
rowDict.Add tempRow, True
End If
NextRow:
MsgBox "Data preprocessing completed successfully."
End Sub
```