# \* Steps to Create and Run a Macro in LibreOffice Calc

#### 1. Enable Macros in LibreOffice

Before running macros, you must enable them.

- 1. Open LibreOffice Calc.
- 2. Click on **Tools**  $\rightarrow$  **Options**.
- 3. Navigate to **LibreOffice**  $\rightarrow$  **Security**  $\rightarrow$  **Macro Security**.
- 4. Select **Medium** or **Low** (Medium will ask for confirmation when opening a file with macros).
- 5. Click OK.

## 2. Open the Macro Editor

- 1. Open LibreOffice Calc.
- 2. Press Alt + F11 (or go to Tools  $\rightarrow$  Macros  $\rightarrow$  Edit Macros).
- 3. In the **LibreOffice Basic Macros** window, select:
  - o My Macros
  - Standard
  - Module1 (or create a new module by clicking "New").
- 4. Click Edit.

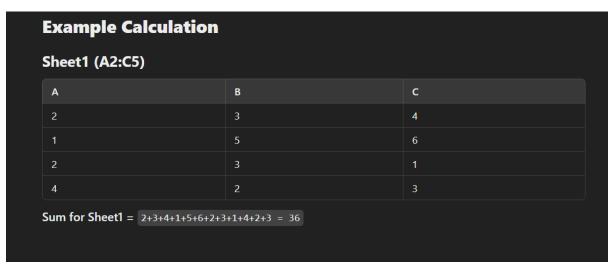
### 3.Write the Macro Code

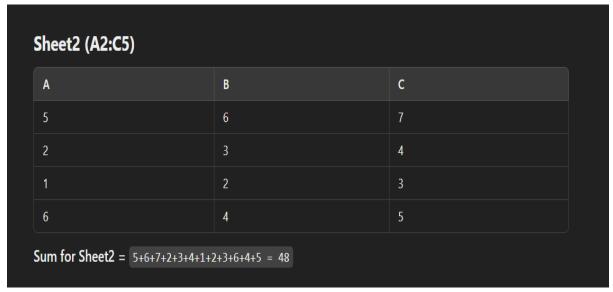
1. **Copy and paste** the following code inside the editor:

```
1. Function SumCellsAllSheets() As Double
2.
     Dim TheSum As Double
3.
     Dim iRow As Integer, iCol As Integer, i As Integer
4.
     Dim oSheets, oSheet, oCells
     Dim oRow(), oRows()
5.
6.
7.
     TheSum = 0
     oSheets = ThisComponent.getSheets() 'Get all sheets in the
   document
9.
10.
     'Loop through each sheet
     For i = 0 To oSheets.getCount() - 1
11.
       oSheet = oSheets.getByIndex(i) 'Get current sheet
12.
       oCells = oSheet.getCellRangeByName("A2:C5") ' Define
13.
   the range to sum (A2:C5)
       oRows() = oCells.getData() ' Get numeric values from the
14.
   range
15.
16.
       ' Loop through rows in the range
       For iRow = LBound(oRows()) To UBound(oRows())
17.
18.
         oRow() = oRows(iRow)
19.
         ' Loop through columns in the row
         For iCol = LBound(oRow()) To UBound(oRow())
20.
21.
           If IsNumeric(oRow(iCol)) Then 'Ensure only
   numbers are added
22.
              TheSum = TheSum + oRow(iCol)
23.
           End If
         Next iCol
24.
25.
       Next iRow
26.
    Next i
27.
     SumCellsAllSheets = TheSum 'Return the total sum
28.
29. End Function
```

## 4. Run the Macro in LibreOffice Calc

- 1. Open a new or existing spreadsheet.
- 2. Enter some numbers in cells A2 to C5 in multiple sheets.
- 3. Click on an empty cell and type:
  - 4. =SumCellsAllSheets()
- 5. Press Enter.
- 6. The total sum of values from A2:C5 in all sheets will appear.





- **ThisComponent** is automatically set to reference the current document when the macro starts.
- A Calc document contains sheets and the macro accesses these via a call to **ThisComponent.getSheets().**
- Use **getCellByPosition(col, row)** to return a cell at a specific row and column.
- Use oSheet.getCellRangeByName("A2") to return a range of cells by name.\