

# KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

[Re-accredited by NAAC with 'A +' Grade (4<sup>th</sup> Cycle)]

[College of Excellence (UGC)]

COIMBATORE-641029



DEPARTMENT OF COMPUTER SCIENCE (UG)  
BACHELOR OF SCIENCE (COMPUTER SCIENCE)  
SEMESTER – VI  
ADVANCED EXCEL LAB

## BONAFIDE CERTIFICATE

This is to certify that this is a Bonafide Record of Practical Work done by

NAME :

REGISTER NO :

Staff-in-charge

Head of the Department

Submitted for the End -of -Semester Practical Examination

held on -----.

Internal Examiner

External Examiner

# ADVANCED EXCEL LAB

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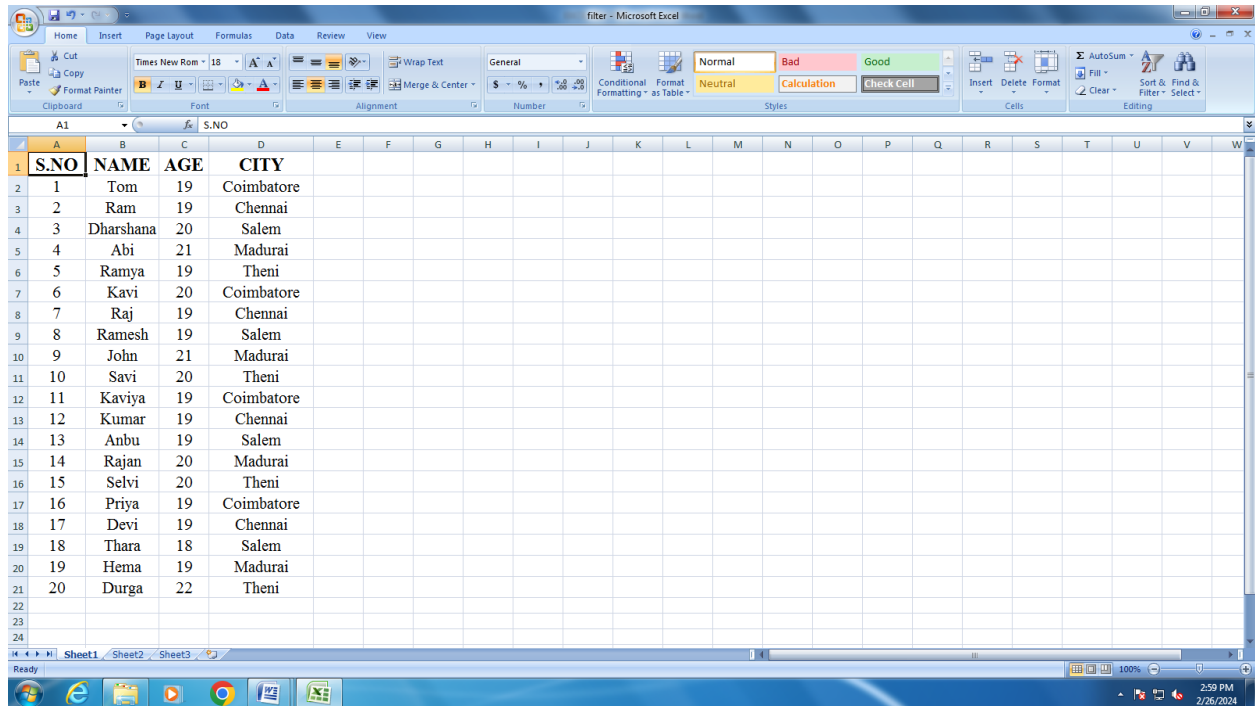
**1.CREAT AN EXCEL SHEET AND ENTER YOUR OWN DATA WITH THE HEADERS NAME,AGE,CITY AND FILTER THE DATA BY CITY.**

**AIM:**

The aim is to creat an excel sheet and enter your own data with the headers Name,Age,City and filter the data by city.

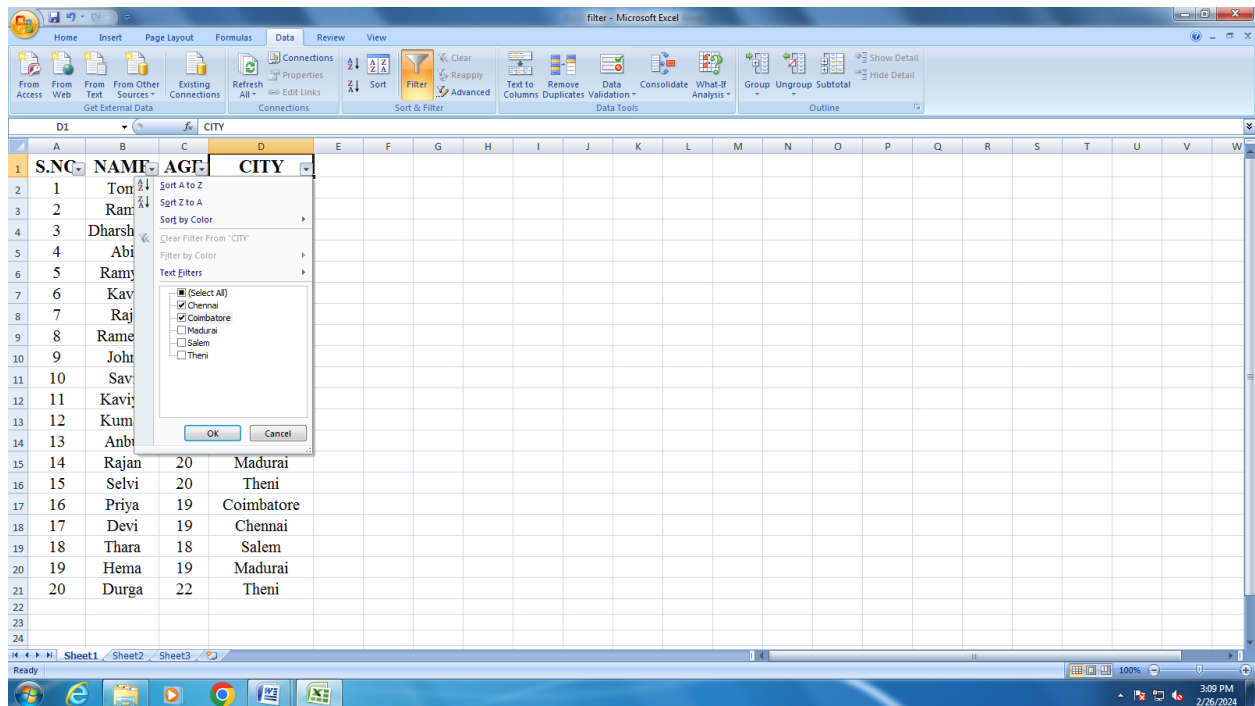
**ALGORITHM:**

## DATA:



filter - Microsoft Excel

S.NO	NAME	AGE	CITY
1	Tom	19	Coimbatore
2	Ram	19	Chennai
3	Dharshana	20	Salem
4	Abi	21	Madurai
5	Ramya	19	Theni
6	Kavi	20	Coimbatore
7	Raj	19	Chennai
8	Ramesh	19	Salem
9	John	21	Madurai
10	Savi	20	Theni
11	Kaviya	19	Coimbatore
12	Kumar	19	Chennai
13	Anbu	19	Salem
14	Rajan	20	Madurai
15	Selvi	20	Theni
16	Priya	19	Coimbatore
17	Devi	19	Chennai
18	Thara	18	Salem
19	Hema	19	Madurai
20	Durga	22	Theni



filter - Microsoft Excel

S.NO	NAME	AGE	CITY
1	Tom	19	Coimbatore
2	Ram	19	Chennai
3	Dharshana	20	Salem
4	Abi	21	Madurai
5	Ramya	19	Theni
6	Kavi	20	Coimbatore
7	Raj	19	Chennai
8	Ramesh	19	Salem
9	John	21	Madurai
10	Savi	20	Theni
11	Kaviya	19	Coimbatore
12	Kumar	19	Chennai
13	Anbu	19	Salem
14	Rajan	20	Madurai
15	Selvi	20	Theni
16	Priya	19	Coimbatore
17	Devi	19	Chennai
18	Thara	18	Salem
19	Hema	19	Madurai
20	Durga	22	Theni

Filter menu for CITY:

- Sort A to Z
- Sort Z to A
- Sort by Color
- Clear Filter From "CITY"
- Filter by Color
- Text Filters
  - (Select All)
  - ☒ Chennai
  - ☒ Coimbatore
  - ☐ Madurai
  - ☐ Salem
  - ☐ Theni

**OUTPUT:**

The screenshot shows a Microsoft Excel window titled 'filter - Microsoft Excel'. The ribbon includes tabs for Home, Insert, Page Layout, Formulas, Data, Review, and View. The 'Data' tab is active, showing options like 'Filter', 'Sort', 'Advanced Filter', 'Text to Columns', 'Remove Duplicates', 'Data Validation', 'Data Tools', 'Consolidate', 'What-If Analysis', 'Group', 'Ungroup', 'Subtotal', 'Show Detail', and 'Hide Detail'. The 'Filter' button is highlighted. The worksheet 'Sheet1' contains a table with 8 records. The columns are labeled 'S.No', 'NAME', 'AGE', and 'CITY'. The data is as follows:

S.No	NAME	AGE	CITY
1	Tom	19	Coimbatore
2	Ram	19	Chennai
6	Kavi	20	Coimbatore
7	Raj	19	Chennai
11	Kaviya	19	Coimbatore
12	Kumar	19	Chennai
16	Priya	19	Coimbatore
17	Devi	19	Chennai

The status bar at the bottom indicates 'Ready' and '8 of 20 records found'. The system clock shows 3:09 PM on 2/26/2024.

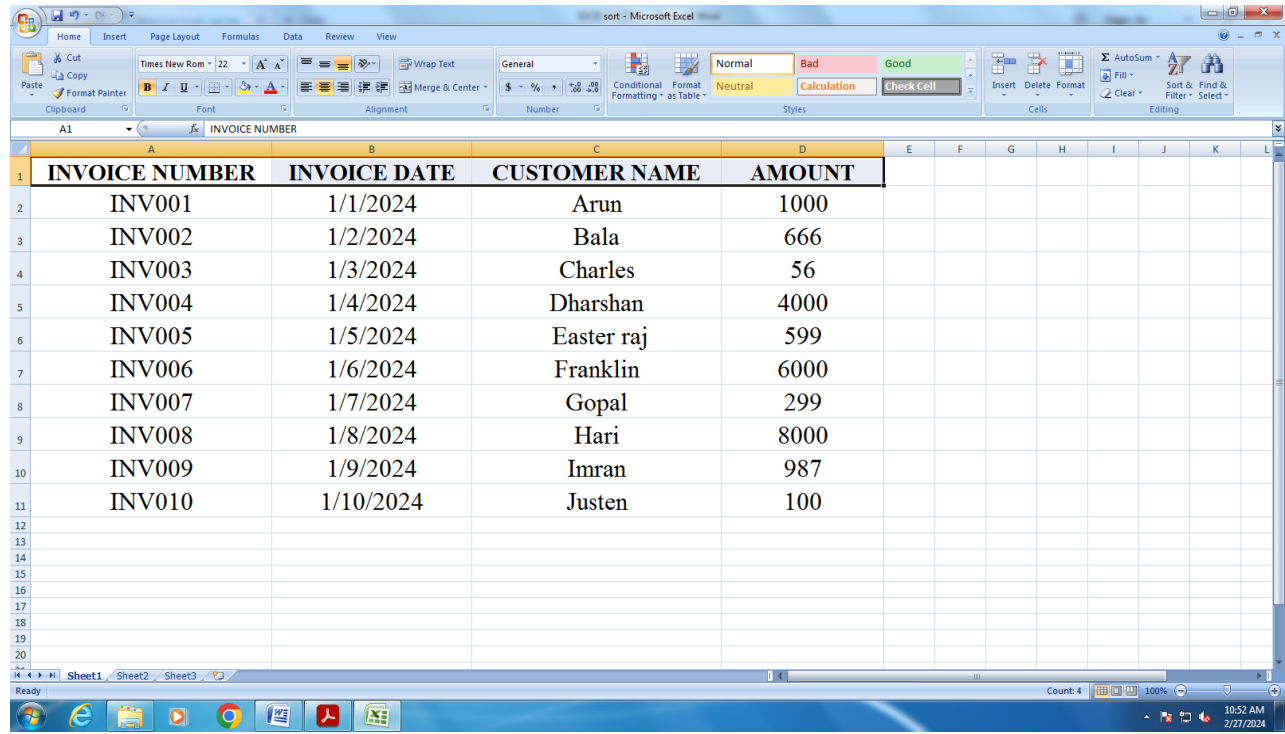
**2.INSERT SERIES OF DATA IN A SHEET WITH THE COLUMNS  
INVIOCE NO,INVOICE DATE,PARTYNAME AND AMOUNT AND SORT  
THE DATA BY PARTYWISE AND THEN BY AMOUNTWISE IN  
DESCENDING ORDER.**

**AIM:**

The aim is to Insert Series of Data in a Sheet with the columns Invoice No, Inv date, Partyname and Amount and then sort the data by Party-wise and then by Amount-wise in descending order.

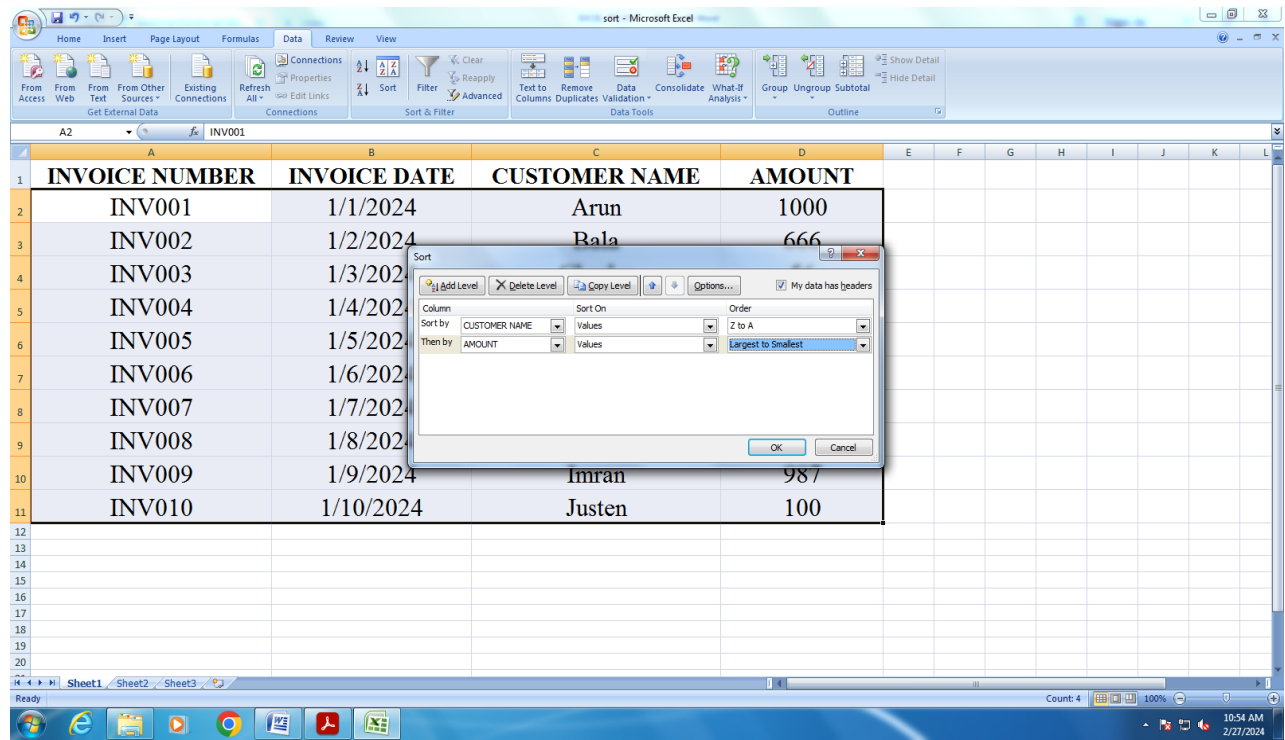
**ALGORITHM:**



**DATA:**


The screenshot shows a Microsoft Excel spreadsheet with a table of invoice data. The table has four columns: INVOICE NUMBER, INVOICE DATE, CUSTOMER NAME, and AMOUNT. The data is sorted by INVOICE DATE in ascending order. The status bar at the bottom indicates 'Count: 4' and the date '10:52 AM 2/27/2024'.

INVOICE NUMBER	INVOICE DATE	CUSTOMER NAME	AMOUNT
INV001	1/1/2024	Arun	1000
INV002	1/2/2024	Bala	666
INV003	1/3/2024	Charles	56
INV004	1/4/2024	Dharshan	4000
INV005	1/5/2024	Easter raj	599
INV006	1/6/2024	Franklin	6000
INV007	1/7/2024	Gopal	299
INV008	1/8/2024	Hari	8000
INV009	1/9/2024	Imran	987
INV010	1/10/2024	Justen	100



The screenshot shows the same Microsoft Excel spreadsheet, but with a 'Sort' dialog box open. The dialog box is configured to sort the data by 'CUSTOMER NAME' in 'Z to A' order, and then by 'AMOUNT' in 'Largest to Smallest' order. The status bar at the bottom indicates 'Count: 4' and the date '10:54 AM 2/27/2024'.

INVOICE NUMBER	INVOICE DATE	CUSTOMER NAME	AMOUNT
INV001	1/1/2024	Arun	1000
INV002	1/2/2024	Bala	666
INV003	1/3/2024	Charles	56
INV004	1/4/2024	Dharshan	4000
INV005	1/5/2024	Easter raj	599
INV006	1/6/2024	Franklin	6000
INV007	1/7/2024	Gopal	299
INV008	1/8/2024	Hari	8000
INV009	1/9/2024	Imran	987
INV010	1/10/2024	Justen	100

**OUTPUT:**

The screenshot displays the Microsoft Excel interface with a PivotTable titled "INVOICE NUMBER" in cell A1. The PivotTable is structured with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L
1	INVOICE NUMBER	INVOICE DATE	CUSTOMER NAME	AMOUNT								
2	INV010	1/10/2024	Justen	100								
3	INV009	1/9/2024	Imran	987								
4	INV008	1/8/2024	Hari	8000								
5	INV007	1/7/2024	Gopal	299								
6	INV006	1/6/2024	Franklin	6000								
7	INV004	1/4/2024	Dharshan	4000								
8	INV003	1/3/2024	Charles	56								
9	INV002	1/2/2024	Bala	666								
10	INV001	1/1/2024	Arun	1000								
11	INV005	1/5/2024	Easter raj	599								

The Excel ribbon shows the "PivotTools" tab, and the status bar at the bottom indicates "Count: 4" and the date "2/27/2024".

**3. TO INSERT SERIES OF DATA IN A SHEET WITH THE COLUMNS INVOICE NO, INV DATE, PARTYNAME AND AMOUNT. INSERT A SUB TOTAL REPORT FOR THE DATA AND DISPLAY ONLY PARTY-WISE BREAKUP.**

**AIM:**

The aim is to insert series of data in a sheet with the columns invoice no, inv date, partyname and amount. insert a sub total report for the data and display only party-wise breakup.

**ALGORITHM:**

The screenshot displays the Microsoft Excel interface with a spreadsheet titled "sort - Microsoft Excel". The ribbon at the top includes tabs for Home, Insert, Page Layout, Formulas, Data, Review, and View. The "Home" tab is active, showing options for Clipboard, Font, Alignment, Number, Styles, Cells, and Editing.

	A	B	C	D	E	F	G	H	I	J	K	L
1	INVOICE NUMBER	INVOICE DATE	CUSTOMER NAME	AMOUNT								
2	INV001	1/1/2024	Arun	1000								
3	INV002	1/2/2024	Bala	666								
4	INV003	1/3/2024	Charles	56								
5	INV004	1/4/2024	Dharshan	4000								
6	INV005	1/5/2024	Easter raj	599								
7	INV006	1/6/2024	Franklin	6000								
8	INV007	1/7/2024	Gopal	299								
9	INV008	1/8/2024	Hari	8000								
10	INV009	1/9/2024	Imran	987								
11	INV010	1/10/2024	Justen	100								
12												
13												
14												
15												
16												
17												
18												
19												
20												

The status bar at the bottom indicates "Ready", "Sheet1", "Count: 4", and the system clock shows "10:52 AM 2/23/2024".

**OUTPUT:**

**4. TO CREATE AN EXCEL WORKBOOK AND ENTER YOUR OWN DATA AND FORMAT THE SAME WITH NUMERIC WITH 3 DECIMAL, PERCENTAGE, DATE DATA TYPE AND CUSTOMIZE ONE COLUMN WITH INDIAN STYLE THOUSAND SEPARATOR.**

**AIM:**

The aim is to Create an excel workbook and enter your own data and format the same with Numeric with 3 decimal, Percentage, Date data type and Customize one column with Indian style thousand separator.

**ALGORITHM:**

**DATA:**

**OUTPUT:**



## **5. TO AUTOMATE THE ADVANCED FILTER USING RECORD MACRO OPTION IN VIEW MENU.**

### **AIM:**

The aim is to automate the advanced filter using record macro option in view menu.

### **ALGORITHM:**

**DATA:**

**OUTPUT:**

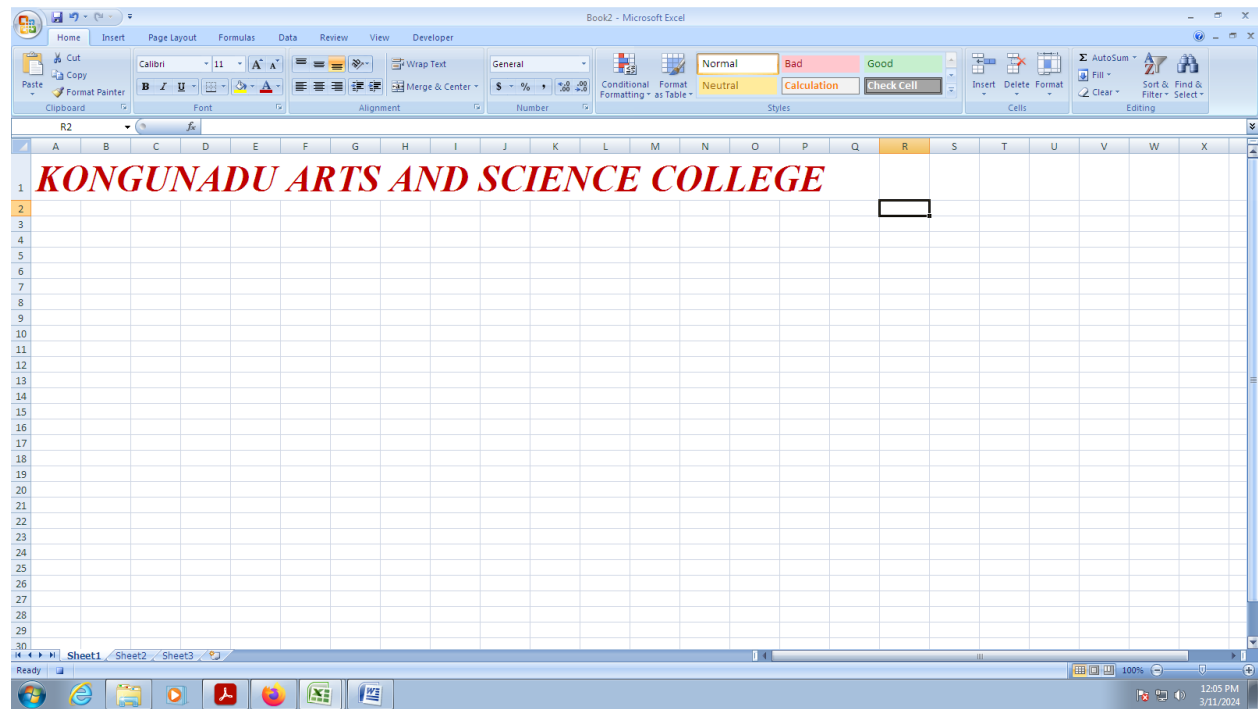
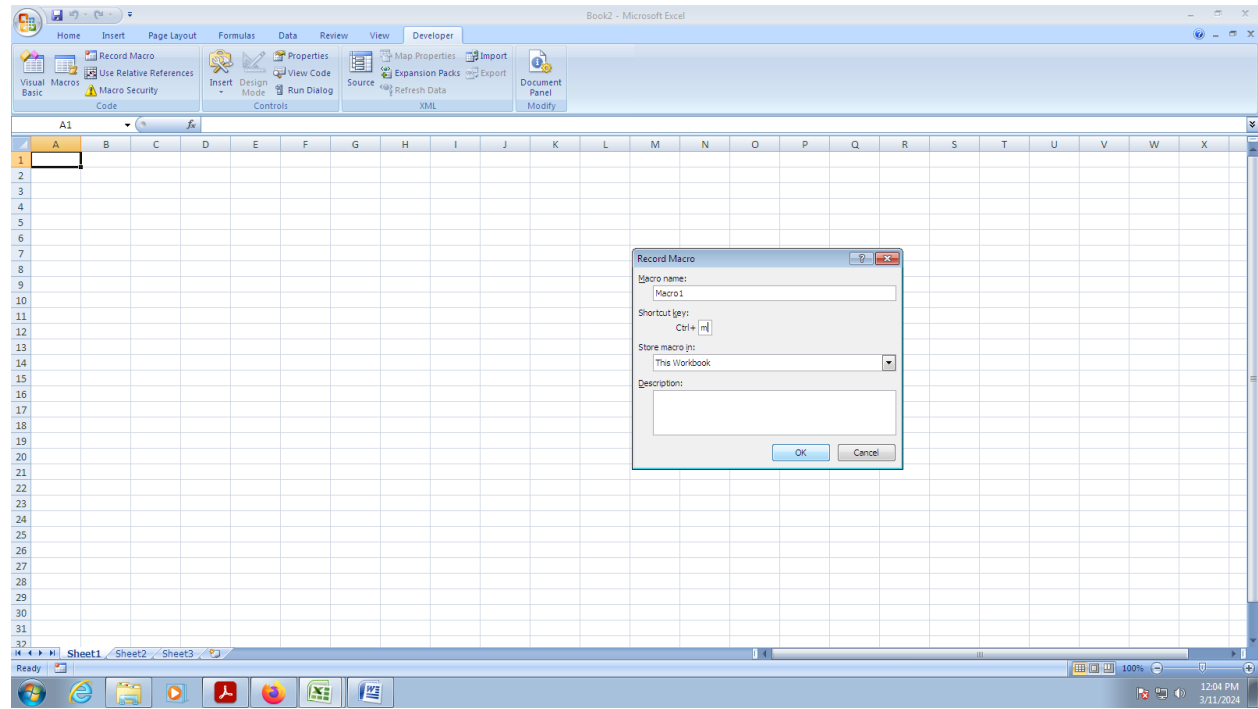
## **6. TO APPLY THE SAME FORMAT TO THE MULTIPLE SHEETS USING RECORD MACRO.**

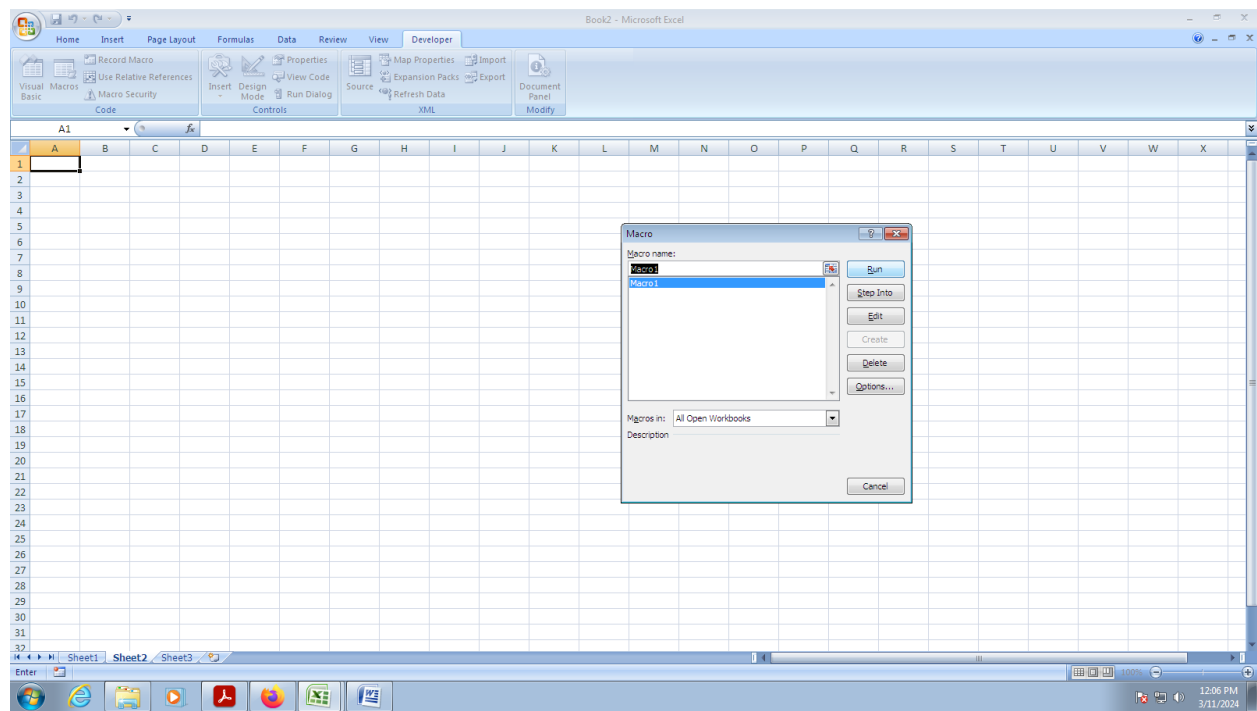
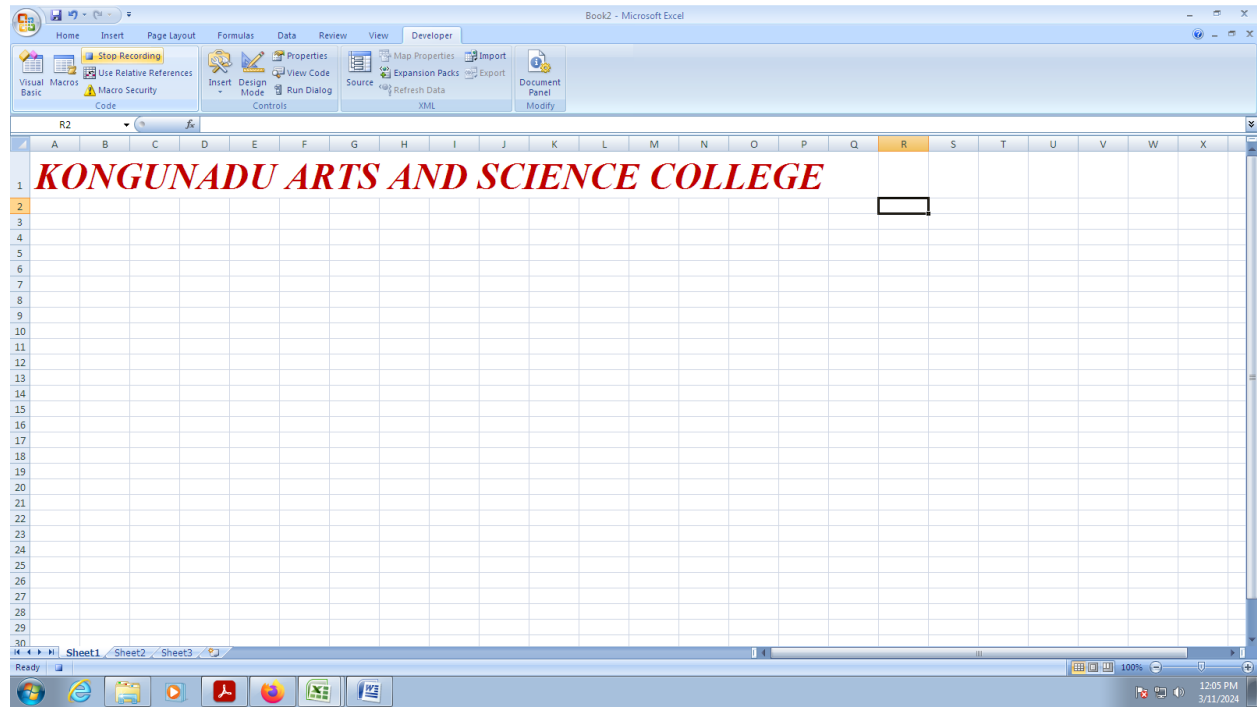
### **AIM:**

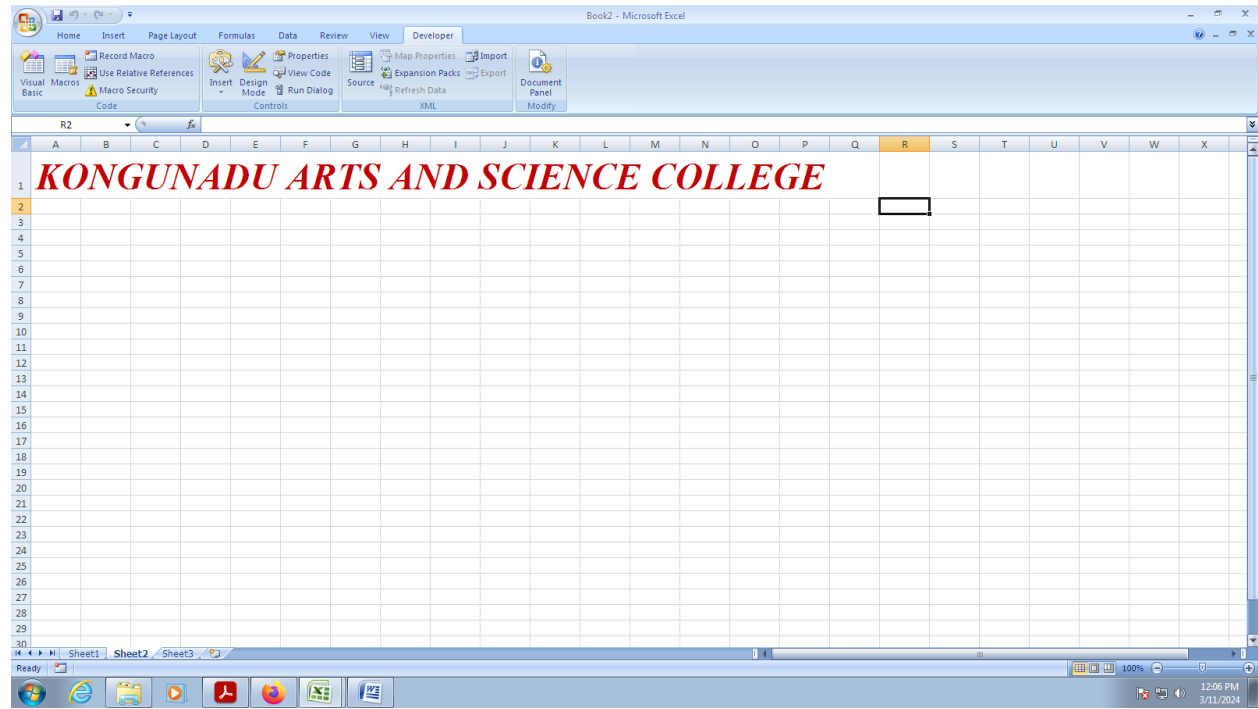
The aim is to apply the same format to the multiple sheets using record macro.

### **ALGORITHM:**

## DATA:





**OUTPUT:**

## **7. TO INSERT A MODULE AND DISPLAY THE ACTIVE CELL VALUE IN TO MESSAGE BOX.**

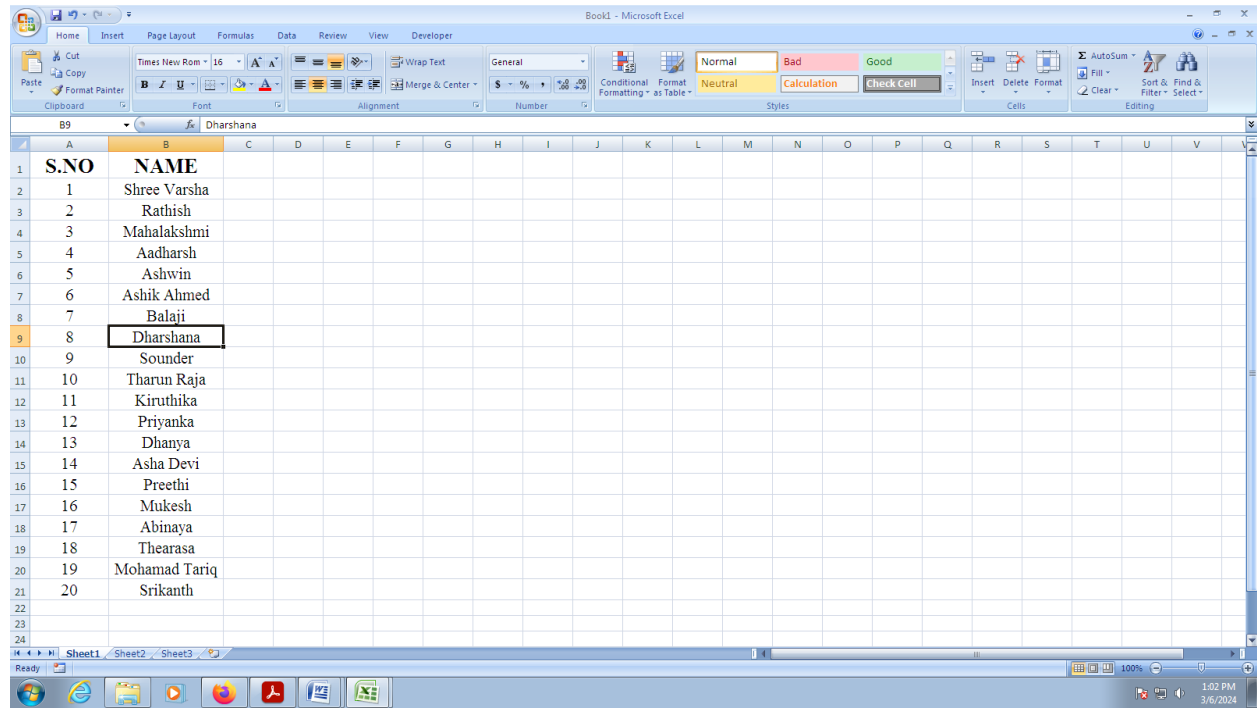
### **AIM:**

The aim is to insert a module and display the active cell value in to message box.

### **ALGORITHM:**

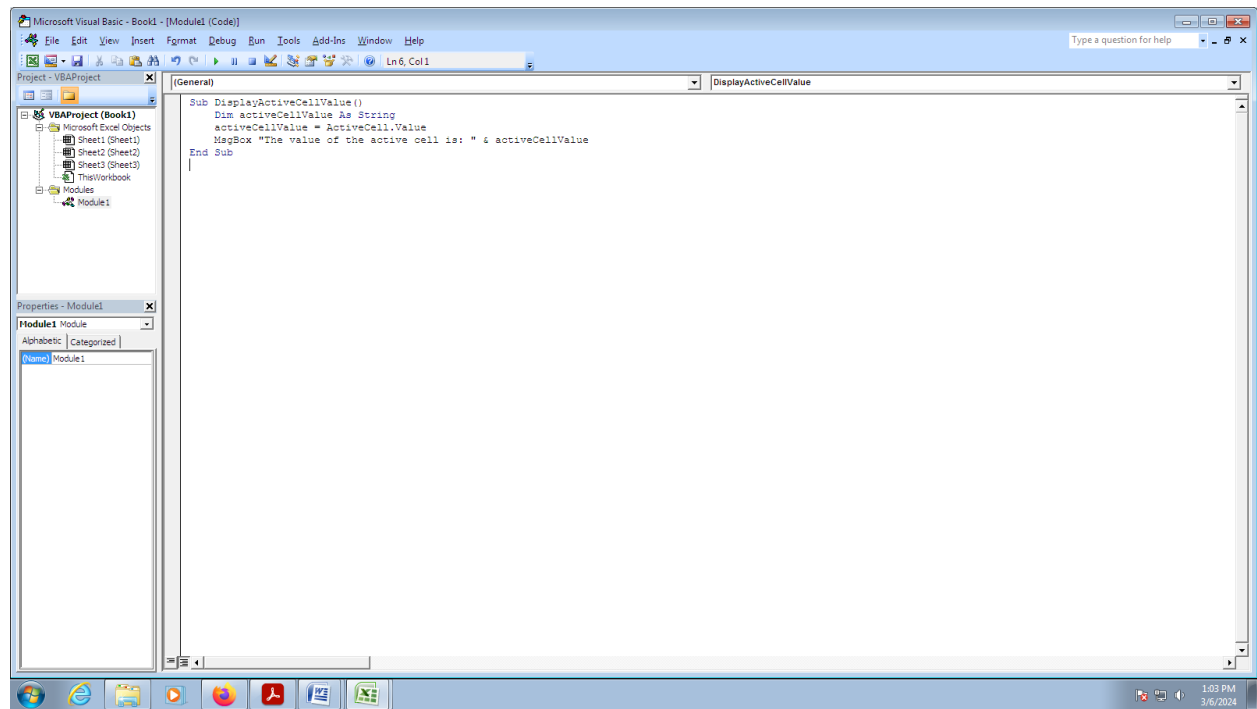


## DATA:



The screenshot shows the Microsoft Excel interface with a spreadsheet titled 'Book1'. The data is organized in two columns: 'S.NO' and 'NAME'. The 'NAME' column contains 20 entries, with the 8th entry, 'Dharshana', highlighted in orange. The spreadsheet is displayed on 'Sheet1'.

S.NO	NAME
1	Shree Varsha
2	Rathish
3	Mahalakshmi
4	Aadharsh
5	Ashwin
6	Ashik Ahmed
7	Balaji
8	Dharshana
9	Sounder
10	Tharun Raja
11	Kiruthika
12	Priyanka
13	Dhanya
14	Asha Devi
15	Preethi
16	Mukesh
17	Abinaya
18	Thearasa
19	Mohamad Tariq
20	Srikanth



The screenshot shows the Microsoft Visual Basic Editor window for 'Book1 - [Module1 (Code)]'. The 'Project - VBAPROJECT' pane on the left shows the 'VBAProject (Book1)' structure. The 'Properties - Module1' pane is also visible. The main code window displays a subroutine named 'DisplayActiveCellValue'.

```
Sub DisplayActiveCellValue()  
    Dim activeCellValue As String  
    activeCellValue = ActiveCell.Value  
    MsgBox "The value of the active cell is: " & activeCellValue  
End Sub
```

The screenshot shows a Microsoft Excel window titled "Book1 - Microsoft Excel". The ribbon includes Home, Insert, Page Layout, Formulas, Data, Review, View, and Developer. The Developer tab is active, showing options like Macro, View Side by Side, Synchronous Scrolling, Reset Window Position, Save Workspace, Switch Windows, and Macros. The spreadsheet has columns A through V and rows 1 through 24. The data in the spreadsheet is as follows:

S.NO	NAME
1	Shree Varsha
2	Rathish
3	Mahalakshmi
4	Aadharsh
5	Ashwin
6	Ashik Ahmed
7	Balaji
8	Dharshana
9	Sounder
10	Tharun Raja
11	Kiruthika
12	Priyanka
13	Dhanya
14	Asha Devi
15	Preethi
16	Mukesh
17	Abinaya
18	Thearasa
19	Mohamad Tariq
20	Srikanth

A Macro dialog box is open, showing the macro name "DisplayActiveCellValue" and the description "All Open Workbooks". The dialog box has buttons for Run, Step Into, Edit, Create, Delete, Options..., and Cancel.

## OUTPUT:

The screenshot displays the Microsoft Excel interface. The active worksheet is 'Dharshana'. The data is organized in two columns: 'S.NO' and 'NAME'. The names listed are: Shree Varsha, Rathish, Mahalakshmi, Aadharsh, Ashwin, Ashik Ahmed, Balaji, Dharshana, Sounder, Tharun Raja, Kiruthika, Priyanka, Dhanya, Asha Devi, Preethi, Mukesh, Abinaya, Thearasa, Mohamad Tariq, and Srikanth. A dialog box titled 'Microsoft Excel' is open, displaying the message 'The value of the active cell is Dharshana' with an 'OK' button.

S.NO	NAME
1	Shree Varsha
2	Rathish
3	Mahalakshmi
4	Aadharsh
5	Ashwin
6	Ashik Ahmed
7	Balaji
8	Dharshana
9	Sounder
10	Tharun Raja
11	Kiruthika
12	Priyanka
13	Dhanya
14	Asha Devi
15	Preethi
16	Mukesh
17	Abinaya
18	Thearasa
19	Mohamad Tariq
20	Srikanth

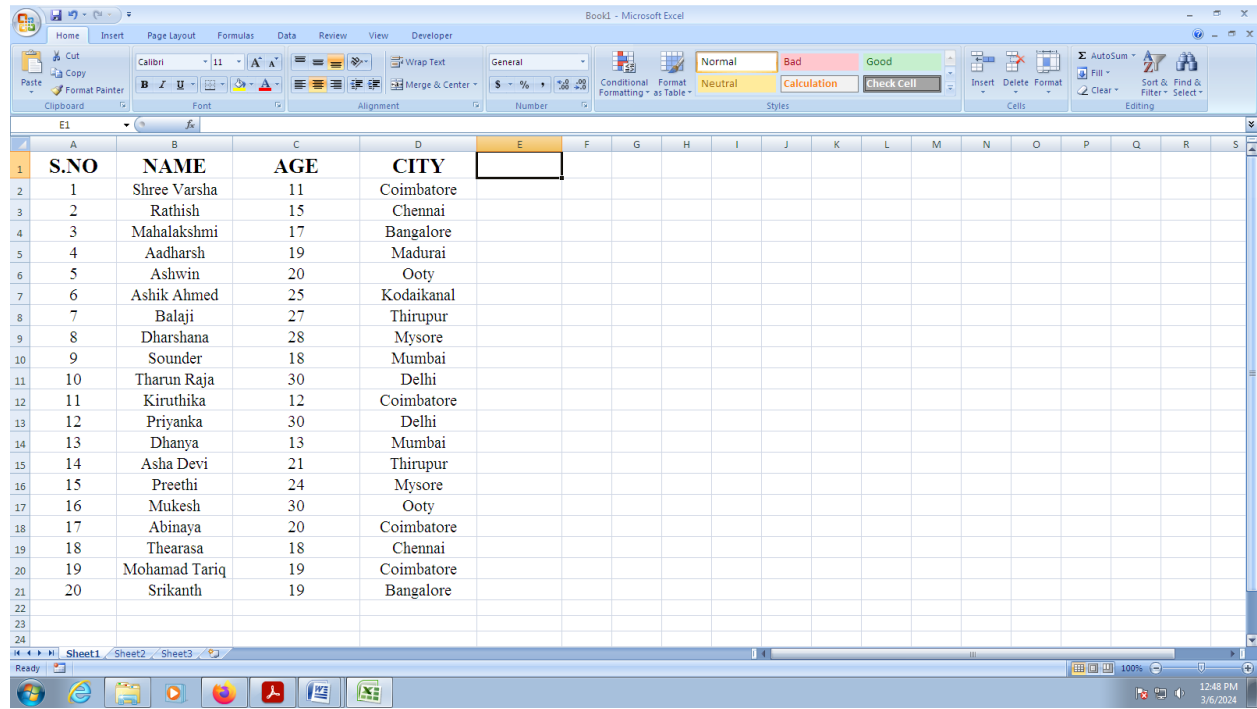
## **8. TO CREATE A MACRO TO INSERT ROW, COLUMN, SHEETS.**

### **AIM:**

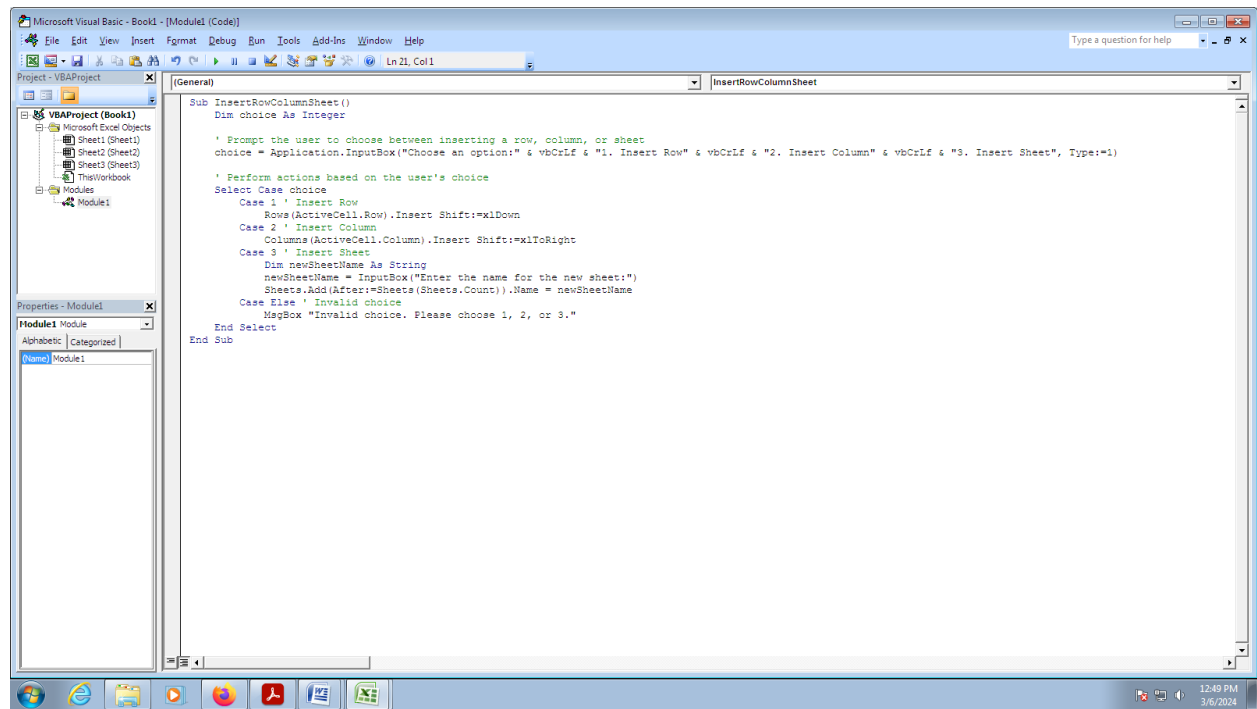
The aim is to create a macro to insert row, column, sheets.

### **ALGORITHM:**

## DATA:



S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore



```

Sub InsertRowColumnSheet()
    Dim choice As Integer

    ' Prompt the user to choose between inserting a row, column, or sheet
    choice = Application.InputBox("Choose an option:" & vbCrLf & "1. Insert Row" & vbCrLf & "2. Insert Column" & vbCrLf & "3. Insert Sheet", Type:=1)

    ' Perform actions based on the user's choice
    Select Case choice
        Case 1 ' Insert Row
            Rows(ActiveCell.Row).Insert Shift:=xlDown
        Case 2 ' Insert Column
            Columns(ActiveCell.Column).Insert Shift:=xlToRight
        Case 3 ' Insert Sheet
            Dim newSheetName As String
            newSheetName = InputBox("Enter the name for the new sheet:")
            Sheets.Add(After:=Sheets(Sheets.Count)).Name = newSheetName
        Case Else ' Invalid choice
            MsgBox "Invalid choice. Please choose 1, 2, or 3."
    End Select
End Sub

```

Macro name: InsertRowColumnSheet

Macro in: All Open Workbooks

Description:

Buttons: Run, Step Into, Edit, Create, Delete, Options..., Cancel

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sunder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

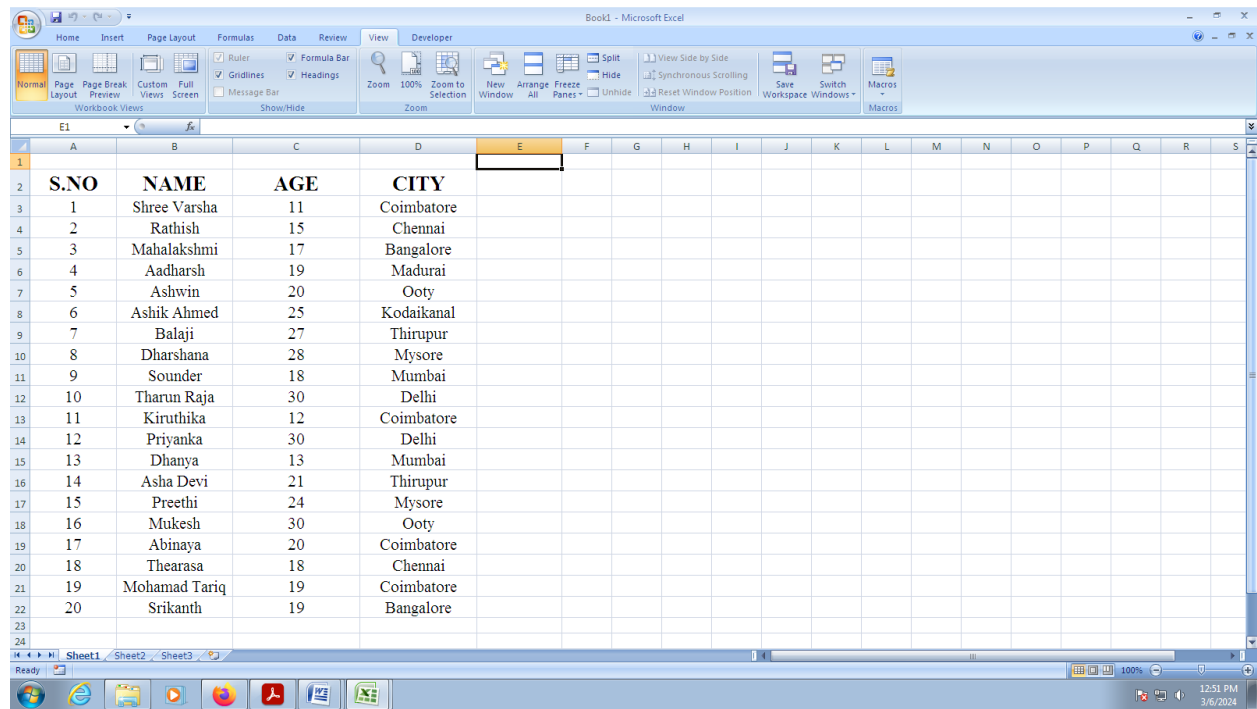
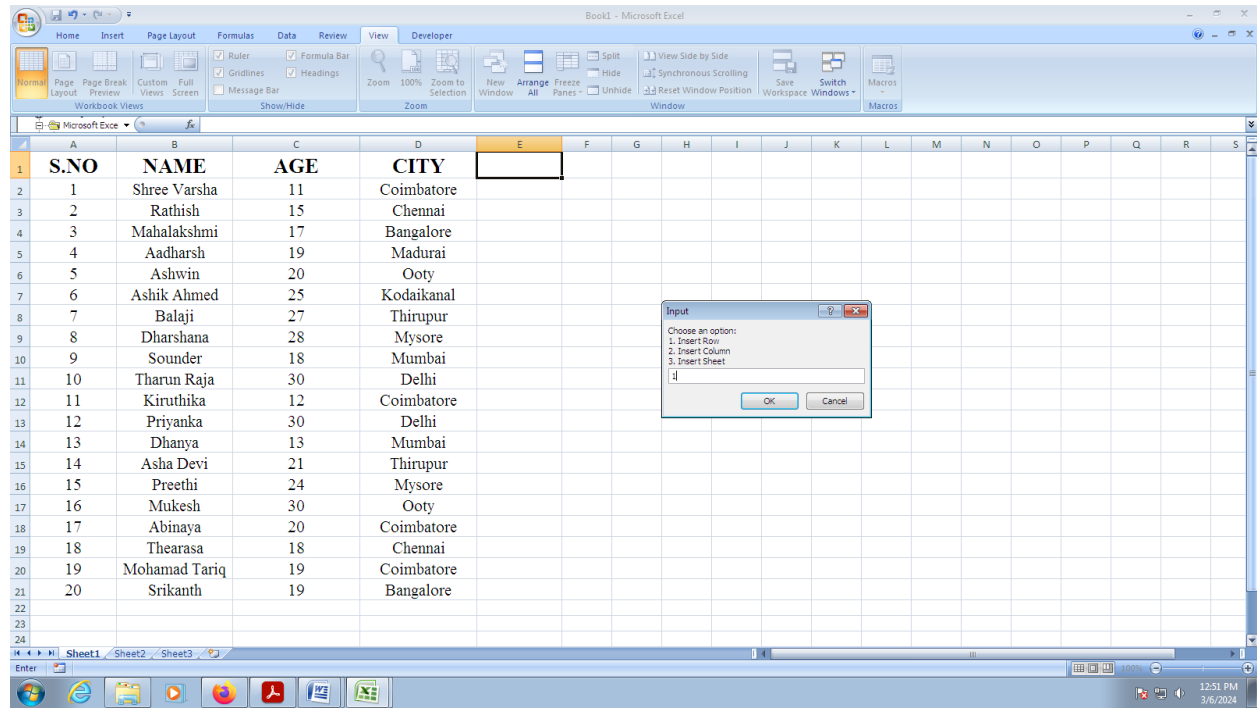
Input

Choose an option:

1. Insert Row
2. Insert Column
3. Insert Sheet

Buttons: OK, Cancel

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sunder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

**OUTPUT:**

Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Developer

Normal Page Layout Preview Custom Views Full Screen Workbook Views

Formula Bar: B2 NAME

Gridlines: [X] Ruler: [X] Formula Bar: [X] Headings: [X] Message Bar: [X]

Zoom: 100% Zoom to Selection

Split: [X] View Side by Side [X] Synchronous Scrolling [X] Reset Window Position [X] Window

Save Workspace Switch Windows

Macros

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

Input

Choose an option:

1. Insert Row
2. Insert Column
3. Insert Sheet

2

OK Cancel

Sheet1 Sheet2 Sheet3

12:52 PM 3/6/2024

Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Developer

Normal Page Layout Preview Custom Views Full Screen Workbook Views

Formula Bar: B2

Gridlines: [X] Ruler: [X] Formula Bar: [X] Headings: [X] Message Bar: [X]

Zoom: 100% Zoom to Selection

Split: [X] View Side by Side [X] Synchronous Scrolling [X] Reset Window Position [X] Window

Save Workspace Switch Windows

Macros

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

Sheet1 Sheet2 Sheet3

12:52 PM 3/6/2024



Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Developer

Normal Page Layout Custom Views Full Screen Workbook Views

Formula Bar

Zoom 100% Zoom to Selection

New Window Arrange All Freeze Panes Hide Unhide

View Side by Side Synchronous Scrolling Reset Window Position Window

Save Switch Workspace Windows Macros

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

Input

Choose an option:

1. Insert Row
2. Insert Column
3. Insert Sheet

3

OK Cancel

Sheet1 Sheet2 Sheet3

12:53 PM 3/6/2024

Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Developer

Normal Page Layout Custom Views Full Screen Workbook Views

Formula Bar

Zoom 100% Zoom to Selection

New Window Arrange All Freeze Panes Hide Unhide

View Side by Side Synchronous Scrolling Reset Window Position Window

Save Switch Workspace Windows Macros

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

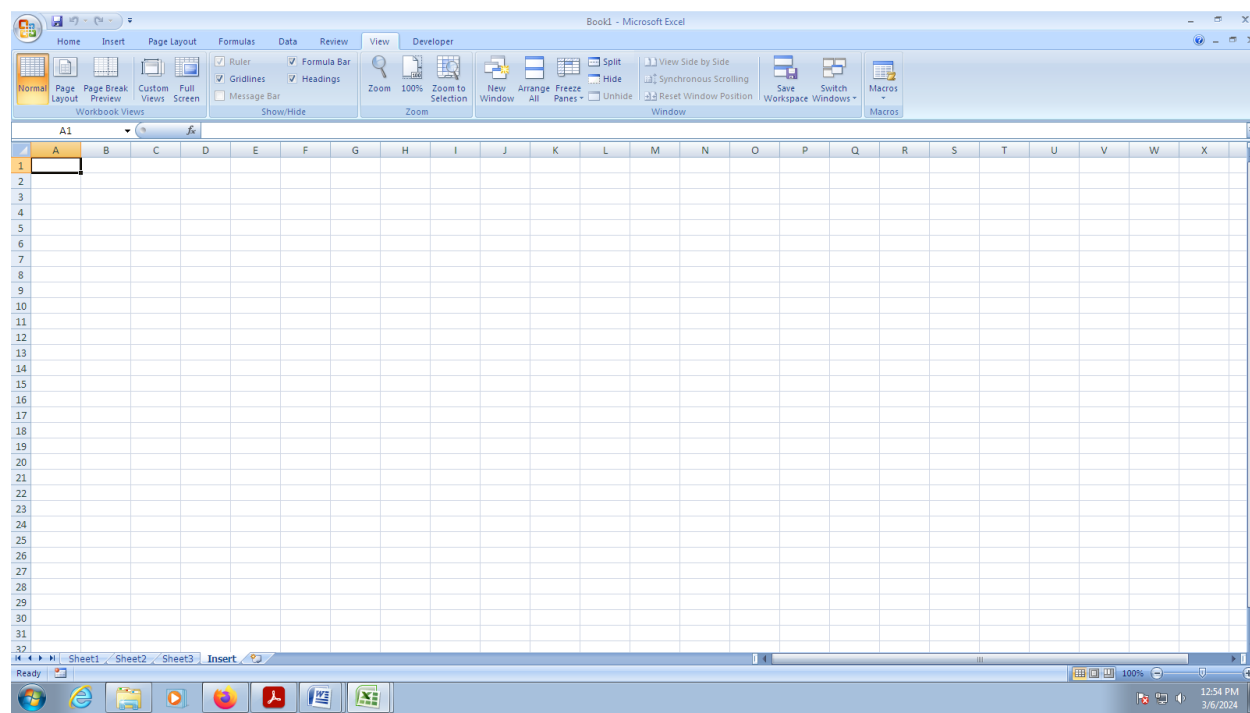
Microsoft Excel

Enter the name for the new sheet:

OK Cancel

Sheet1 Sheet2 Sheet3

13:53 PM 3/6/2024



## **9.CREATE A MACRO WITH CONDITIONS USING IF , SELECT CASE.**

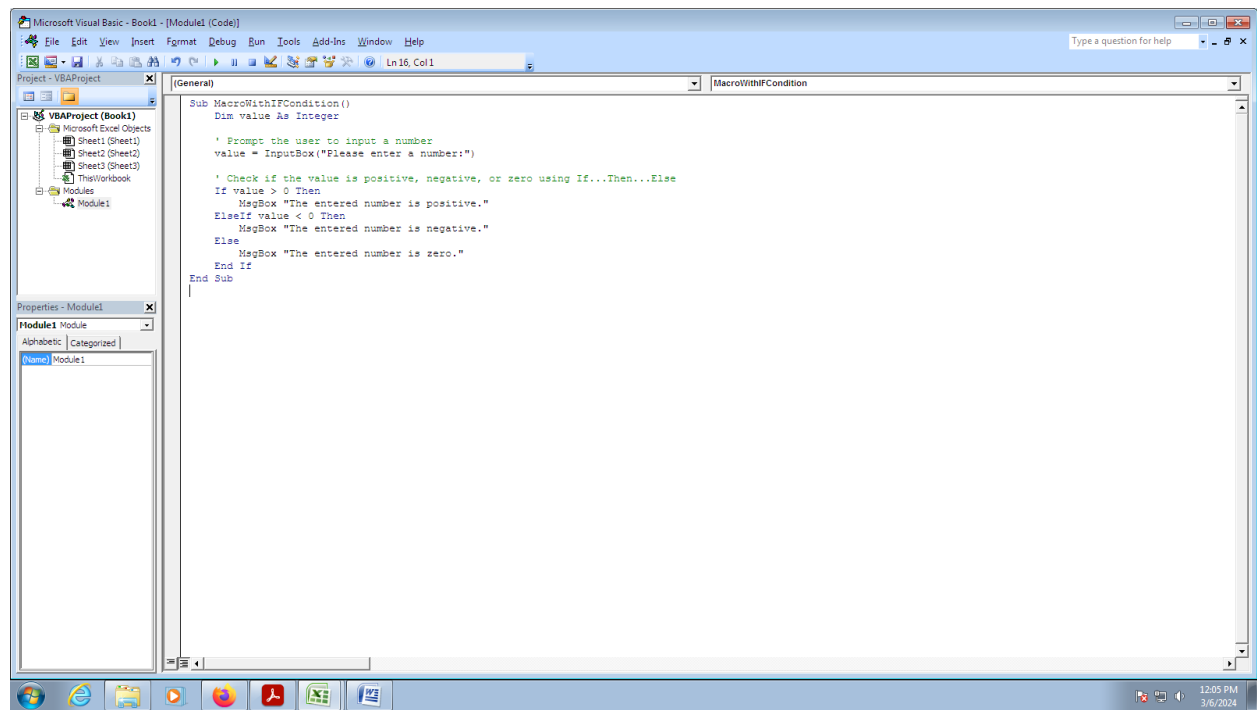
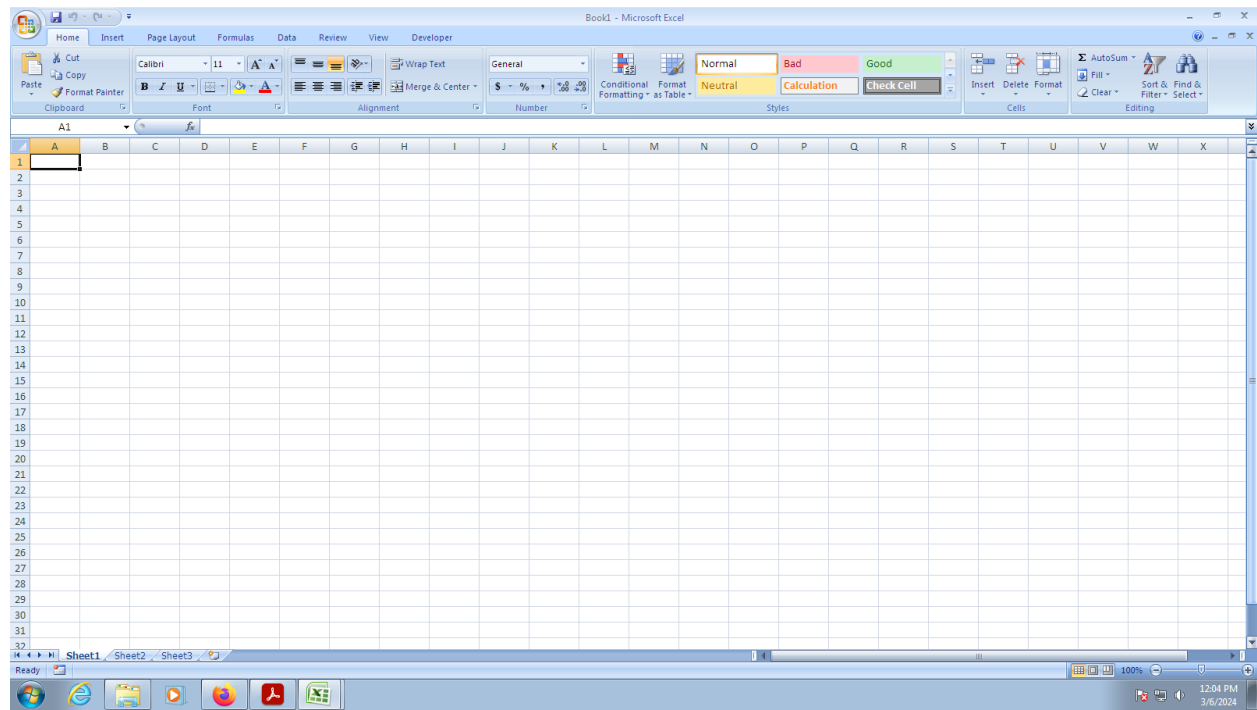
### **AIM:**

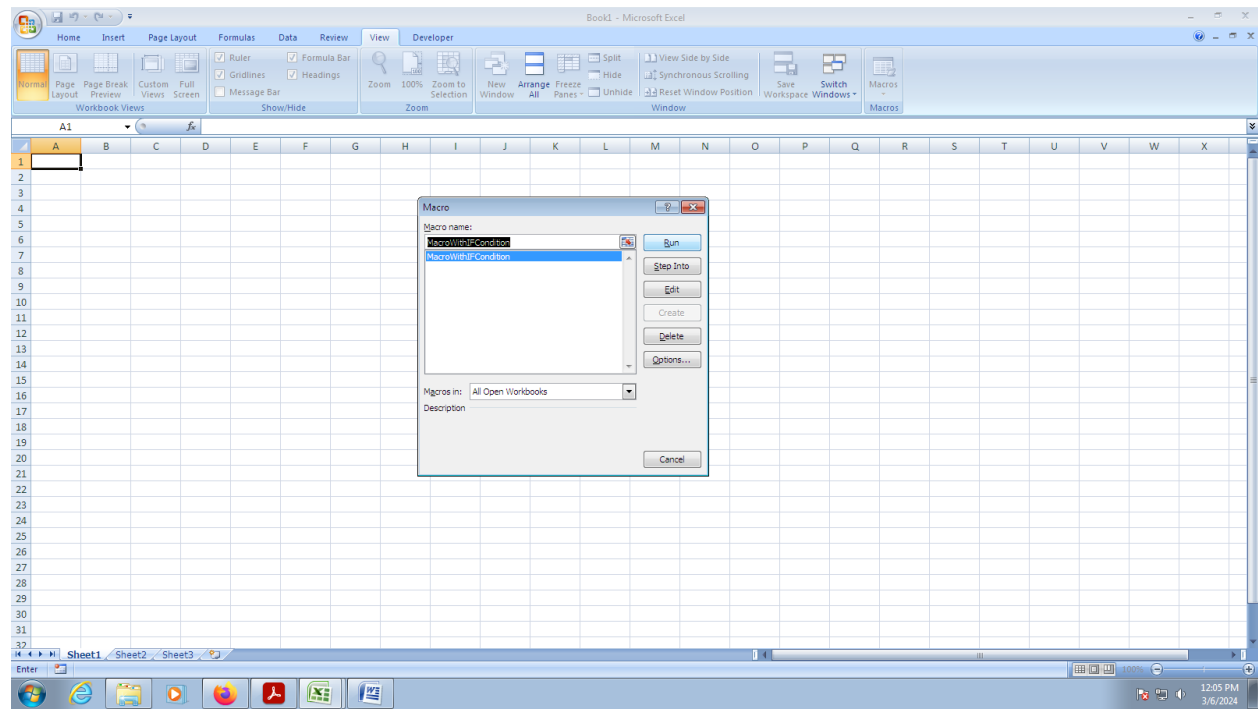
The aim is to create a Macro with conditions using IF , Select case.

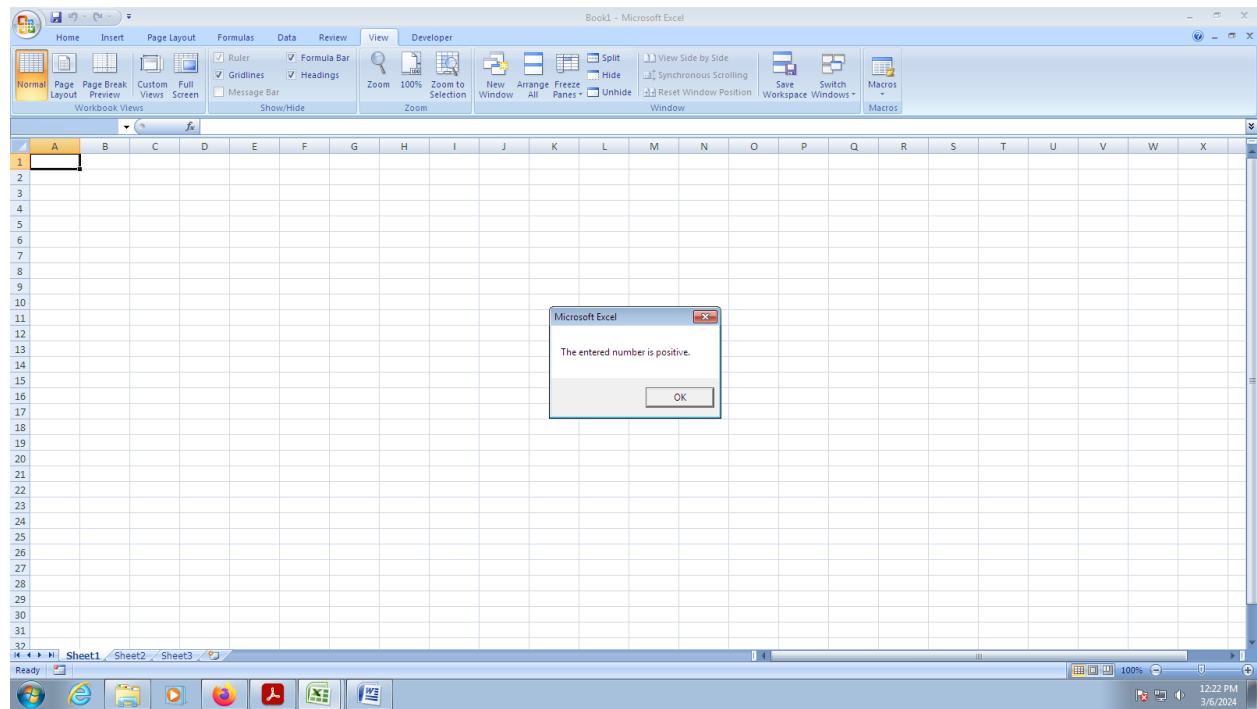
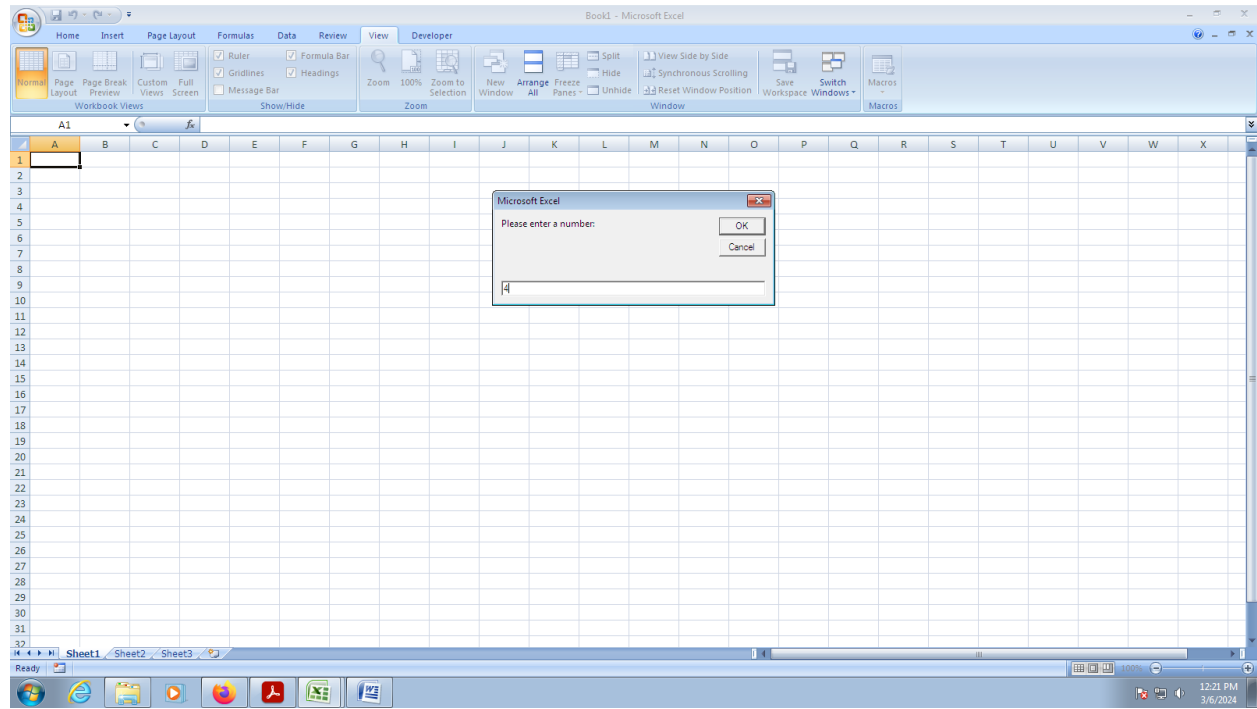
### **ALGORITHM:**

# DATA:

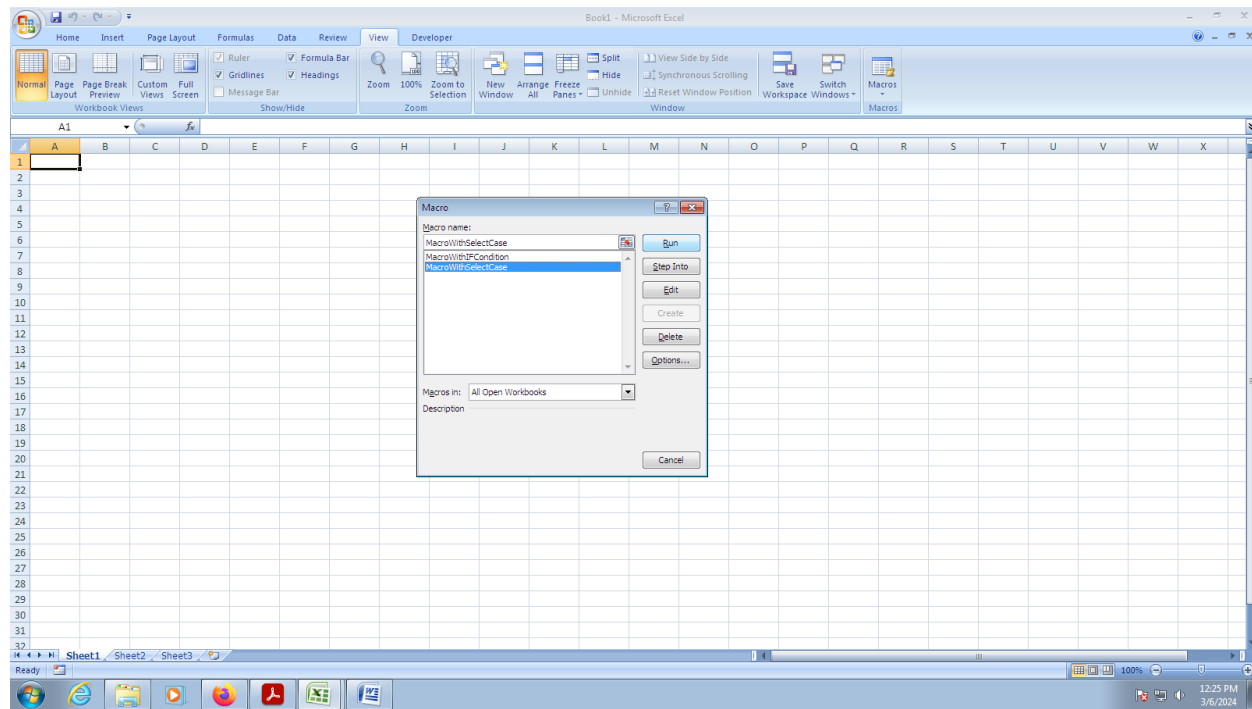
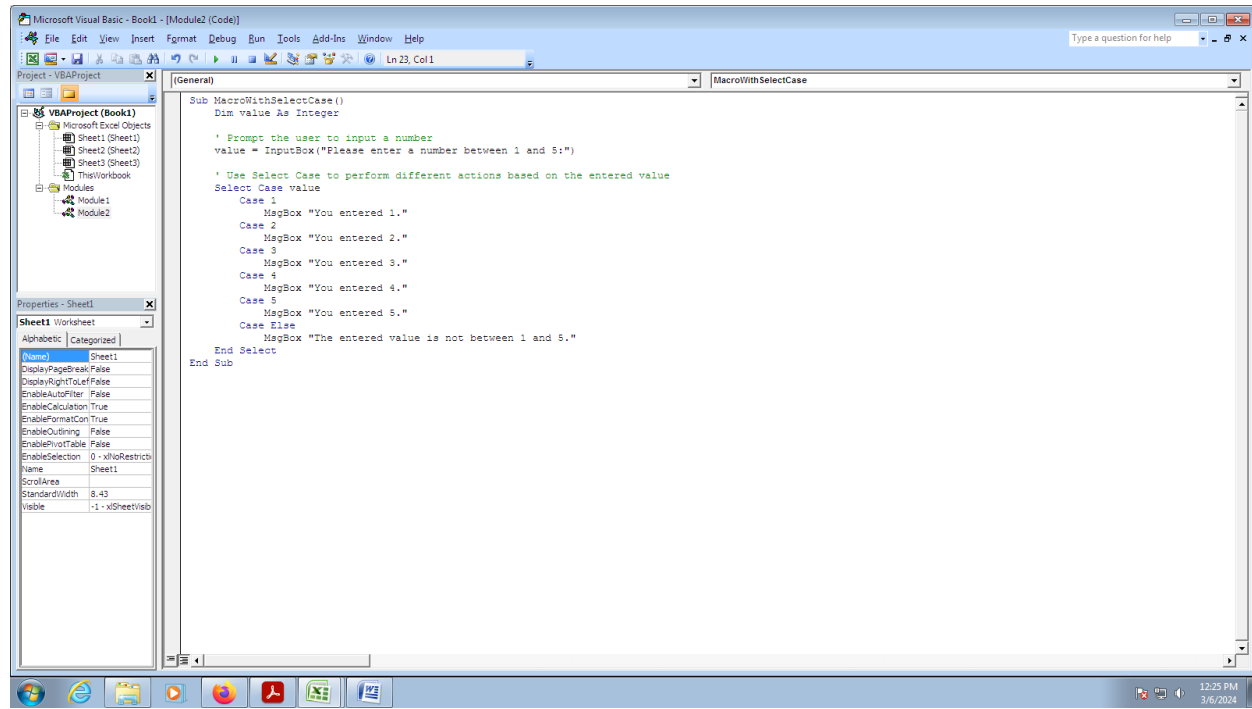
## USING IF

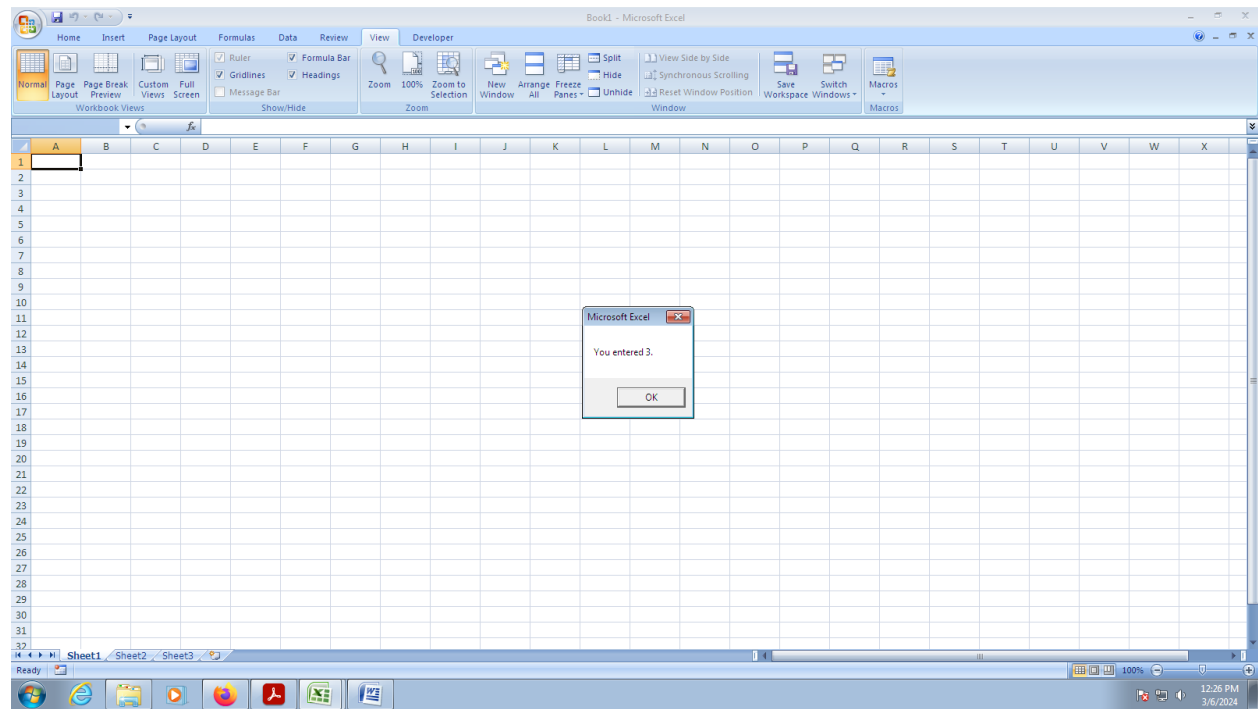
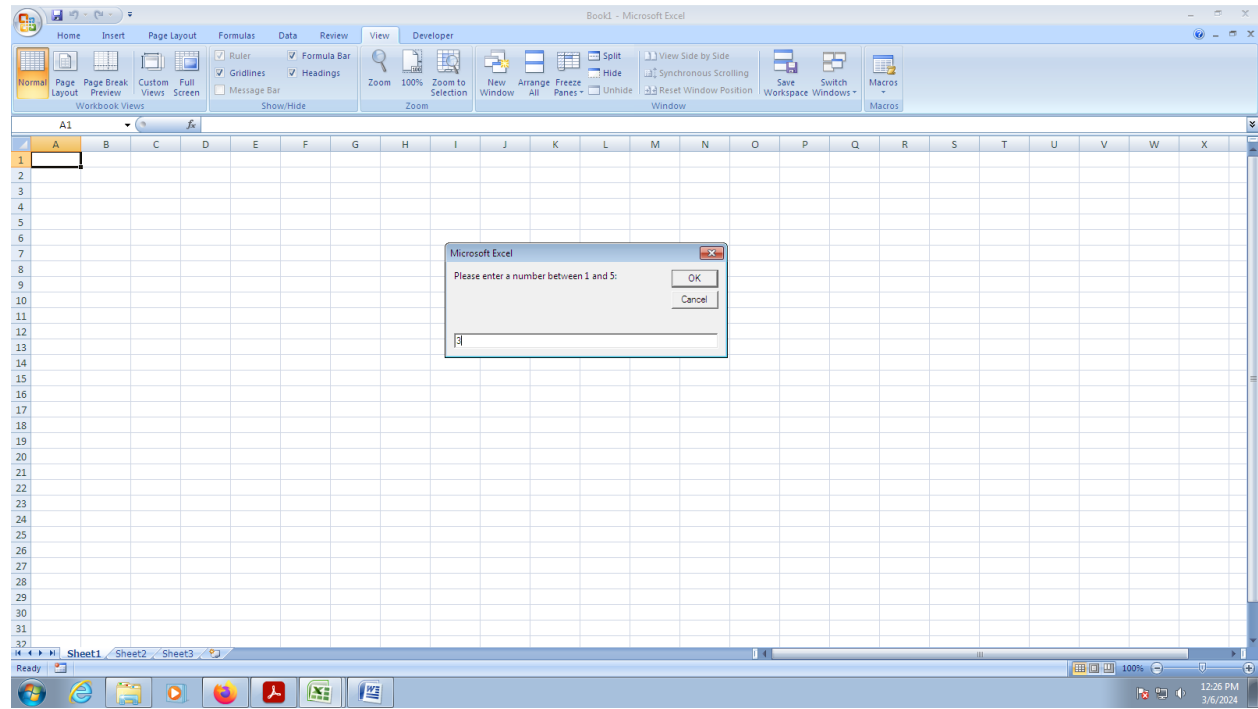




**OUTPUT:**

## USING SELECT CASE



**OUTPUT:**



## **10.TO SPLIT DATA INTO MULTIPLE SHEETS USING VBA..**

### **AIM:**

The aim is to Split data into multiple sheets using VBA.

### **ALGORITHM:**

## DATA:

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

```

Sub SplitDataIntoSheets()
    Dim wsSource As Worksheet
    Dim wsDest As Worksheet
    Dim lastRow As Long
    Dim i As Long
    Dim criteriaColumn As Long
    Dim currentCriteria As String

    ' Set the source worksheet
    Set wsSource = ThisWorkbook.Sheets("Sheet1")

    ' Set the column containing the criteria for splitting
    criteriaColumn = 1 ' Change this to the column number containing the criteria

    ' Find the last row of data in the source sheet
    lastRow = wsSource.Cells(wsSource.Rows.Count, criteriaColumn).End(xlUp).Row

    ' Loop through each row in the source sheet
    For i = 2 To lastRow ' Assuming row 1 contains headers
        currentCriteria = wsSource.Cells(i, criteriaColumn).Value

        ' Check if a sheet already exists for the current criteria
        On Error Resume Next
        Set wsDest = ThisWorkbook.Sheets(currentCriteria)
        On Error GoTo 0

        ' If the sheet doesn't exist, create it
        If wsDest Is Nothing Then
            Set wsDest = ThisWorkbook.Sheets.Add(After:=ThisWorkbook.Sheets(ThisWorkbook.Sheets.Count))
            wsDest.Name = currentCriteria
            wsSource.Rows(1).Copy wsDest.Rows(1) ' Copy header row to new sheet
        End If

        ' Find the next empty row in the destination sheet
        lastRowDest = wsDest.Cells(wsDest.Rows.Count, criteriaColumn).End(xlUp).Row + 1

        ' Copy the entire row to the destination sheet
        wsSource.Rows(i).Copy wsDest.Rows(lastRowDest)
    Next i

    MsgBox "Data has been split into multiple sheets.", vbInformation
End Sub

```

The screenshot displays the Microsoft Excel interface with a data table in Sheet1. The table has four columns: S.NO, NAME, AGE, and CITY. A Macro dialog box is open, showing the macro name 'SplitDataIntoSheets' and the 'Run' button.

S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

Macro dialog box details:

- Macro name: SplitDataIntoSheets
- Buttons: Run, Step Into, Edit, Create, Delete, Options...
- Macros in: All Open Workbooks
- Description: (Empty)

**OUTPUT:**

The screenshot displays the Microsoft Excel interface with a data table in Sheet1. The table has four columns: S.NO, NAME, AGE, and CITY. A dialog box titled 'Microsoft Excel' is open in the center, displaying the message 'Data has been split into multiple sheets.' with an 'OK' button.

S.NO	NAME	AGE	CITY
1	ree Var	11	imbatore
2	Rathish	15	Chennai
3	halaksh	17	angalore
4	adharsl	19	Madurai
5	Ashwin	20	Ooty
6	hik Ahn	25	odaikanal
7	Balaji	27	hirupur
8	harshar	28	Mysore
9	Sounde	18	Mumbai
10	arun R	30	Delhi
11	iruthik	12	imbatore
12	Priyank	30	Delhi
13	Dhanya	13	Mumbai
14	sha Dev	21	hirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	imbatore
18	heearas	18	Chennai
19	amad T	19	imbatore
20	Srikanth	19	angalore