KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

[Re-accredited by NAAC with 'A +' Grade (4th 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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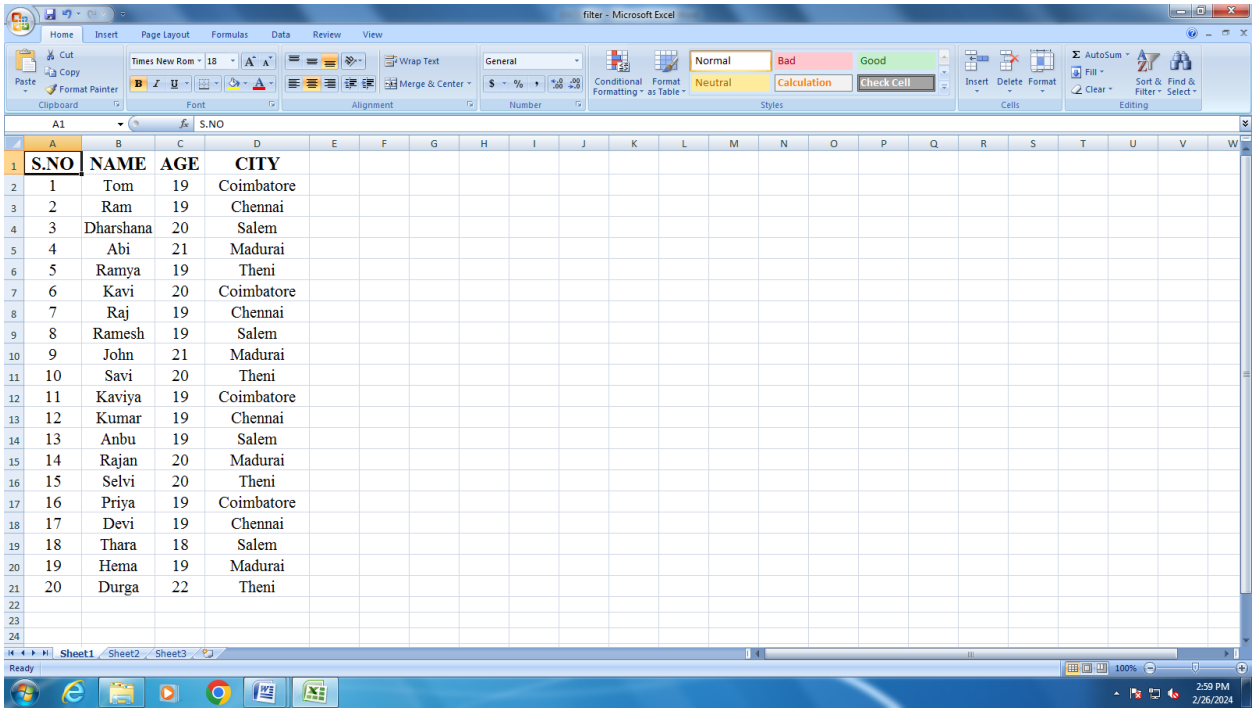
1.CREAT AN EXCEL SHEET AND ENTER YOUR OWN DATA WITH THE HEADERS NAME,AGE,CITY AND FILTER THE DATA BY CITY.

AIM:

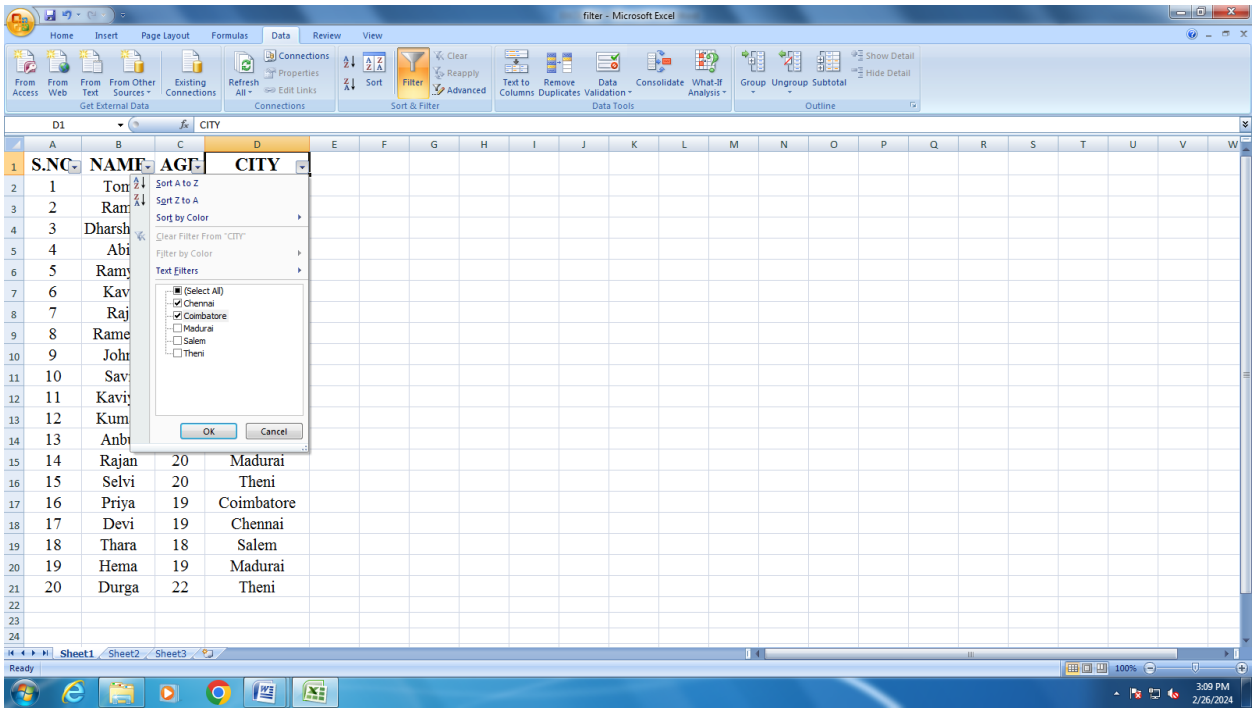
The aim is to creat an excel sheet and enter your own data with the headers Name,Age,City and filter the data by city.

ALGORITHM:

DATA:

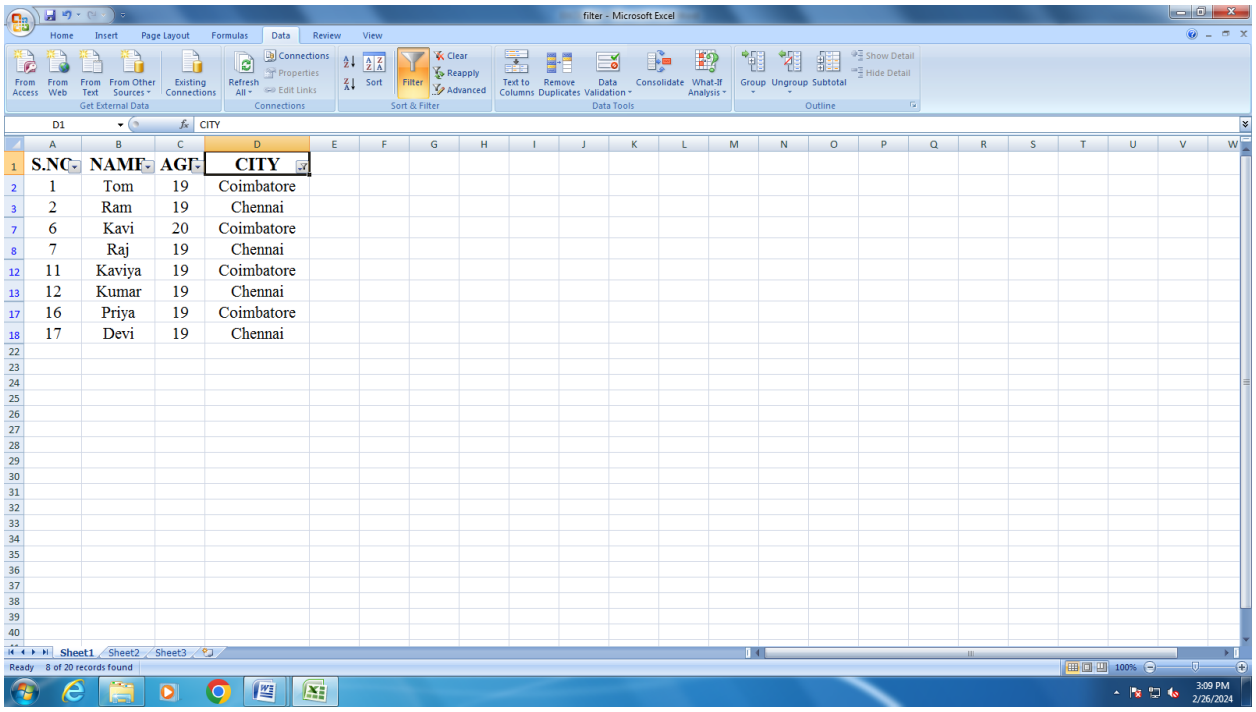


S.NO	NAME	AGE	CITY
1	Tom	19	Coimbatore
2	Ram	19	Chennai
3	Dharshana	20	Salem
4	Abi	21	Madurai
5	Ramya	19	Theni
6	Kavi	20	Coimbatore
7	Raj	19	Chennai
8	Ramesh	19	Salem
9	John	21	Madurai
10	Savi	20	Theni
11	Kaviya	19	Coimbatore
12	Kumar	19	Chennai
13	Anbu	19	Salem
14	Rajan	20	Madurai
15	Selvi	20	Theni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



S.NO	NAME	AGE	CITY
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

OUTPUT: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Home
Insert
Page Layout
Formulas
Data
Review
View
From Access
From Web
From Text
From Other Sources
Existing Connections
Refresh All
Connections
Properties
Edit Links
Sort
Filter
Clear
Reapply
Advanced
Text to Columns
Remove Duplicates
Data Validation
Consolidate
What-If Analysis
Group
Ungroup
Subtotal
Show Detail
Hide Detail
Get External Data
Connections
Sort & Filter
Data Tools
Outline
D1
CITY
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
Sheet1
Sheet2
Sheet3
Ready
8 of 20 records found
100%
3:09 PM
2/26/2024

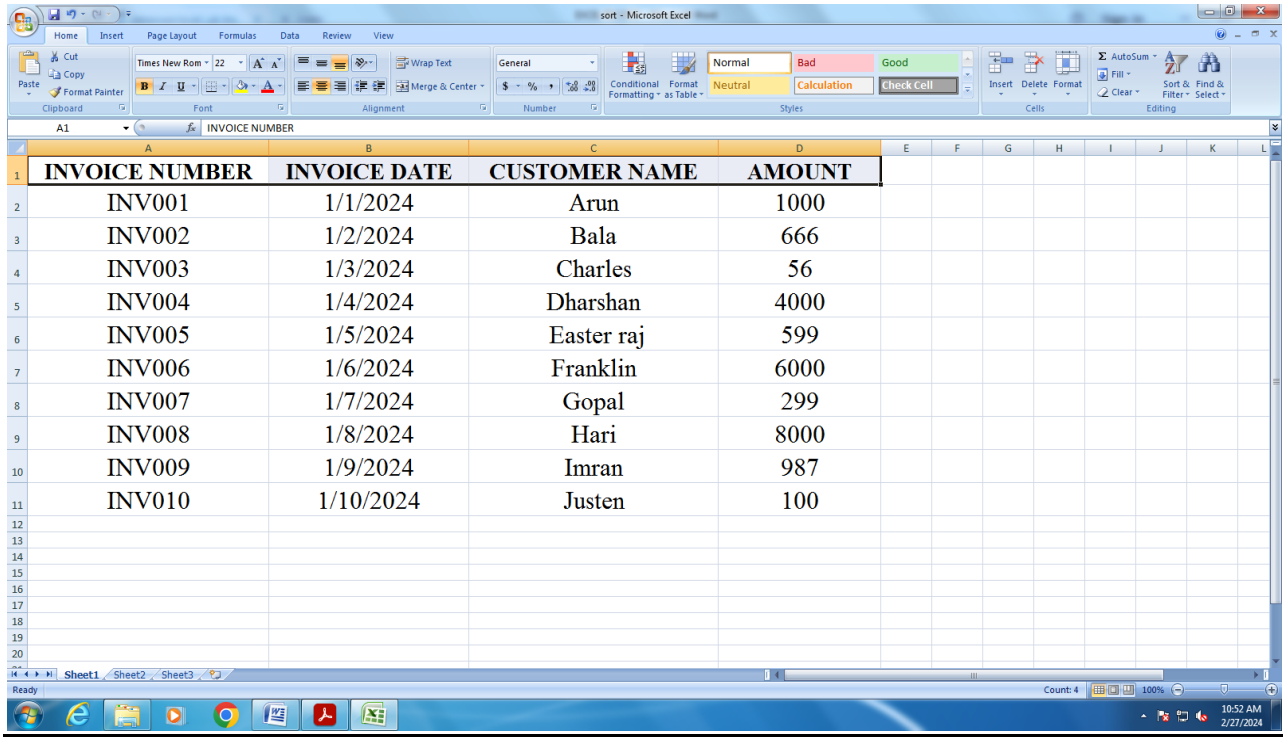
2.INSERT SERIES OF DATA IN A SHEET WITH THE COLUMNS INVIOCE NO,INVOICE DATE,PARTYNAME AND AMOUNT AND SORT THE DATA BY PARTYWISE AND THEN BY AMOUNTWISE IN DESCENDING ORDER.

AIM:

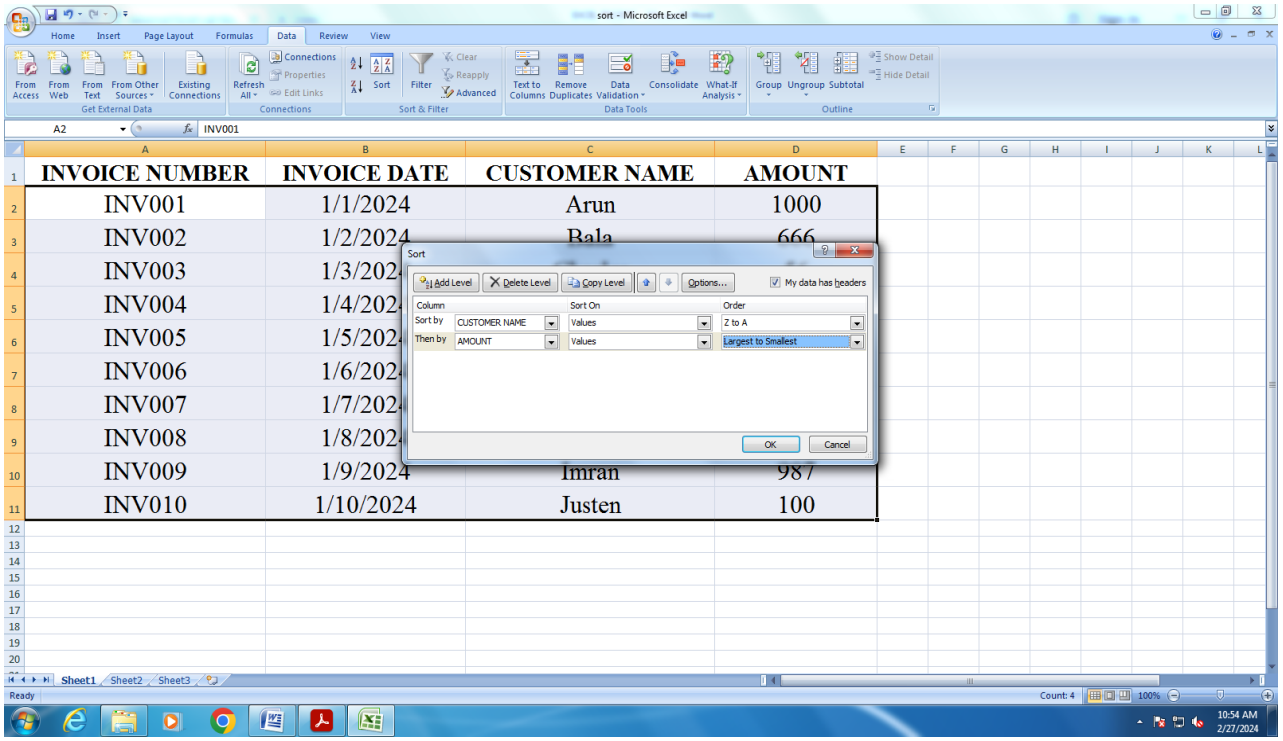
The aim is to Insert Series of Data in a Sheet with the columns Invoice No, Inv date, Partyname and Amount and then sort the data by Party-wise and then by Amount-wise in descending order.

ALGORITHM:

DATA:



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



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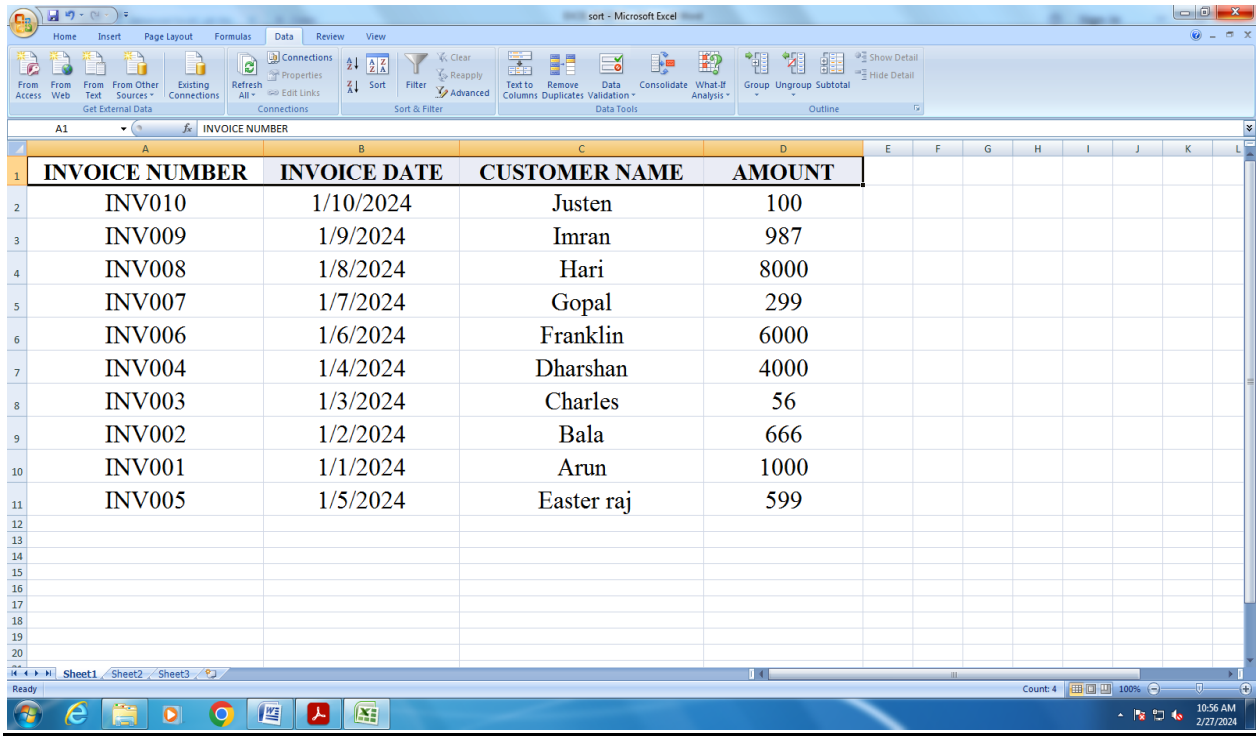
INV002	1/2/2024	Bala	666
INV003	1/3/2024	Charles	56
INV004	1/4/2024	Dharshan	4000
INV005	1/5/2024	Easter raj	599
INV006	1/6/2024	Franklin	6000
INV007	1/7/2024	Gopal	299
INV008	1/8/2024	Hari	8000
INV009	1/9/2024	Imran	987
INV010	1/10/2024	Justen	100

OUTPUT:



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

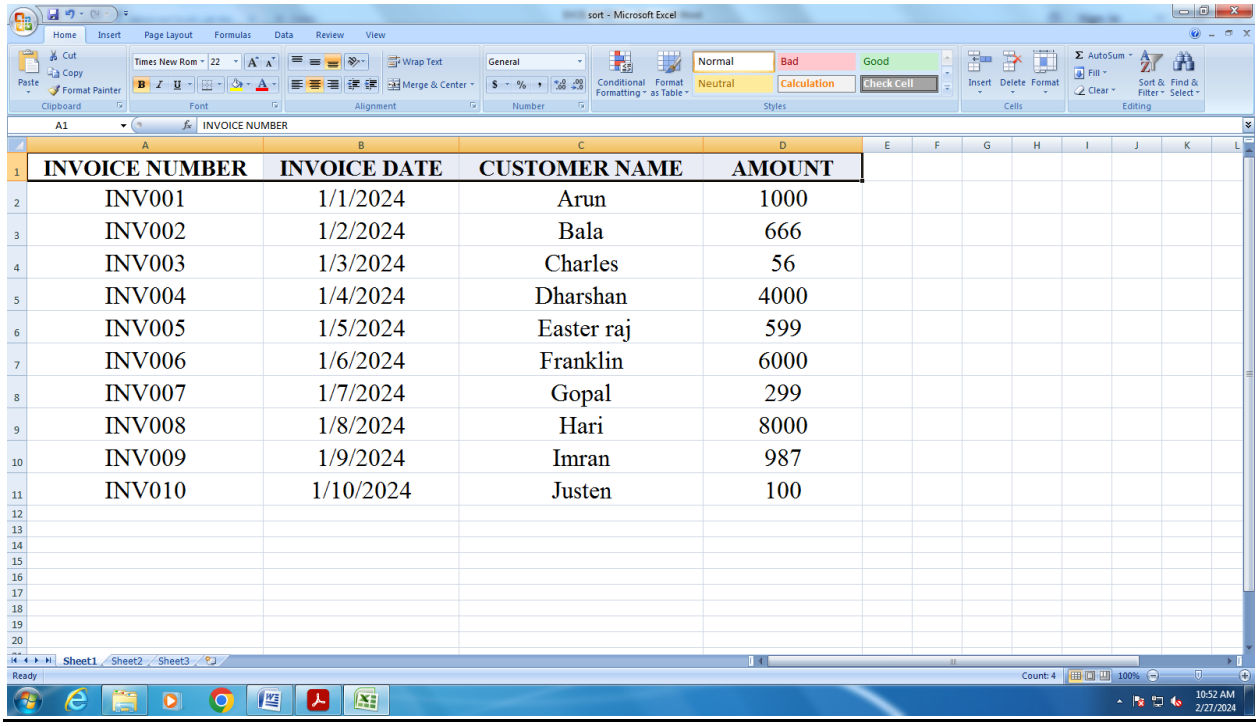
3. TO INSERT SERIES OF DATA IN A SHEET WITH THE COLUMNS INVOICE NO, INV DATE, PARTYNAME AND AMOUNT. INSERT A SUB TOTAL REPORT FOR THE DATA AND DISPLAY ONLY PARTY-WISE BREAKUP.

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:

DATA:



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INV003	1/3/2024	Charles	56
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INV008	1/8/2024	Hari	8000
INV009	1/9/2024	Imran	987
INV010	1/10/2024	Justen	100

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:

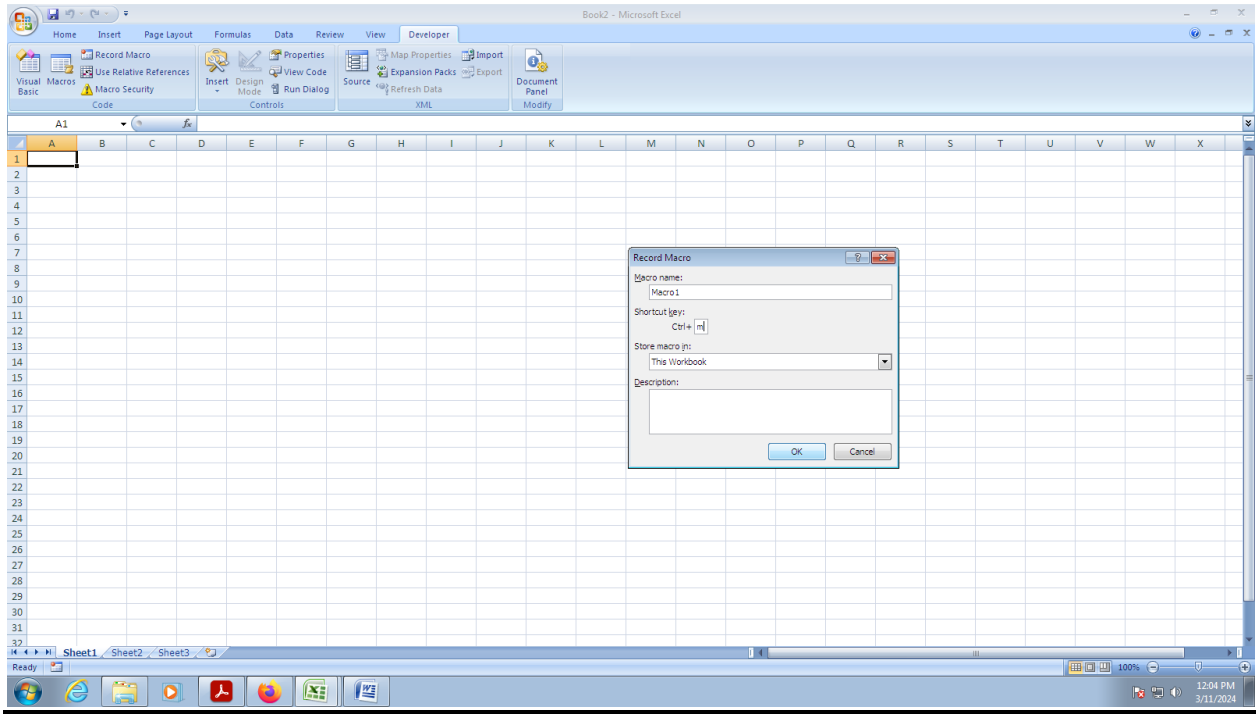
6. TO APPLY THE SAME FORMAT TO THE MULTIPLE SHEETS USING RECORD MACRO.

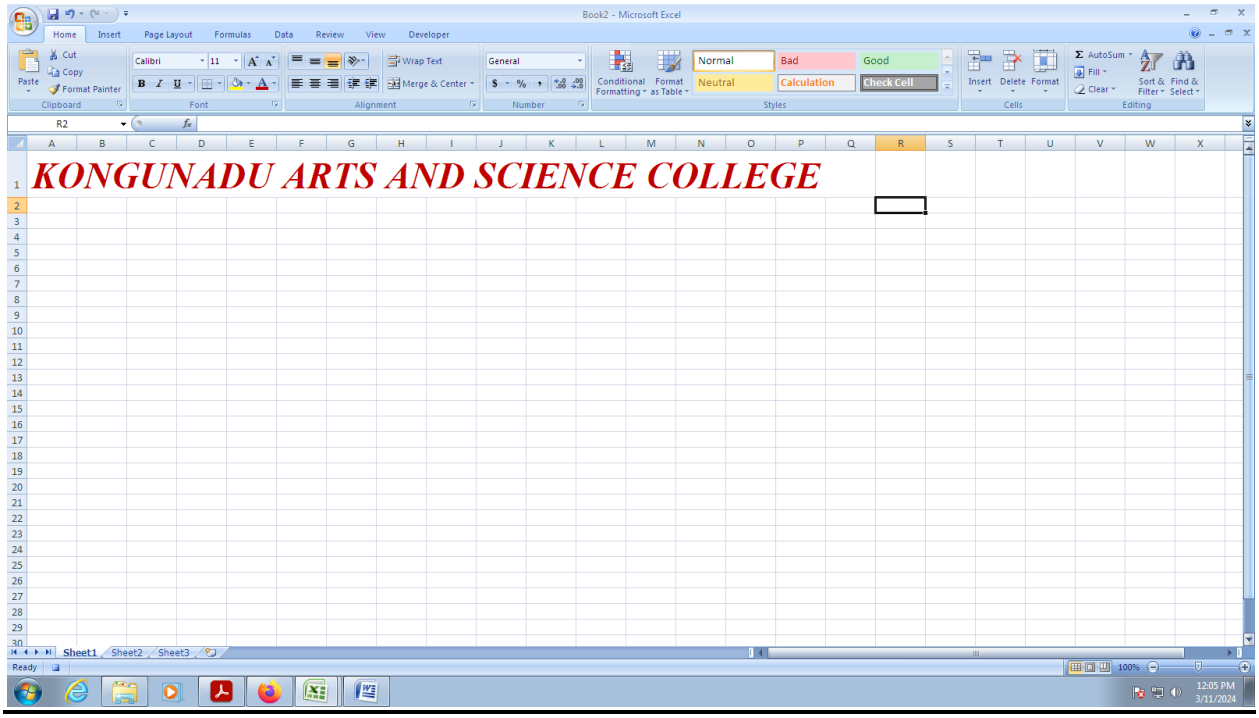
AIM:

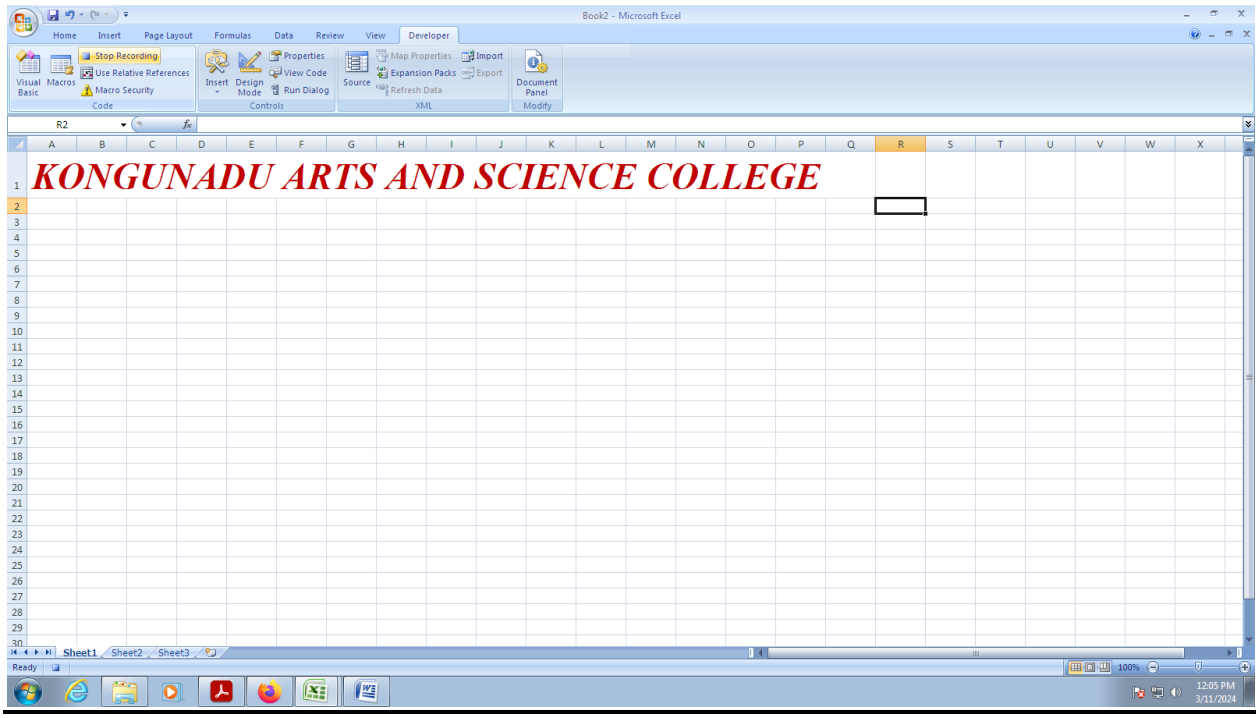
The aim is to apply the same format to the multiple sheets using record macro.

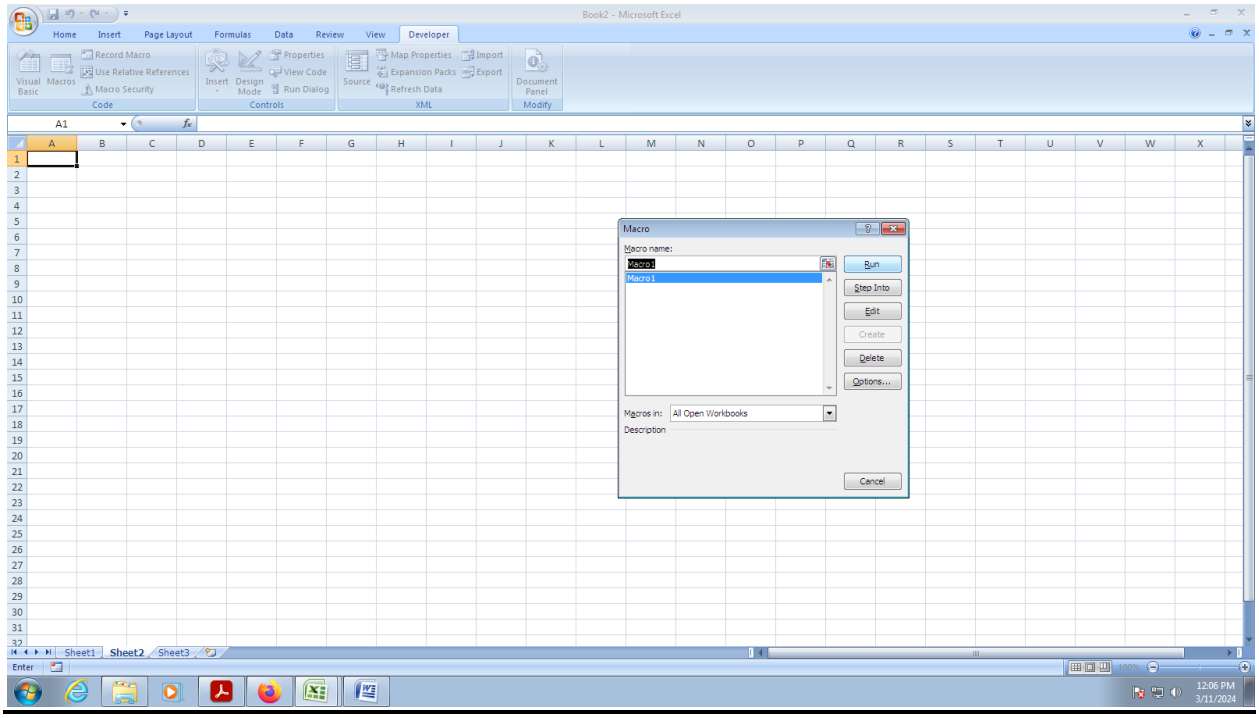
ALGORITHM:

DATA:

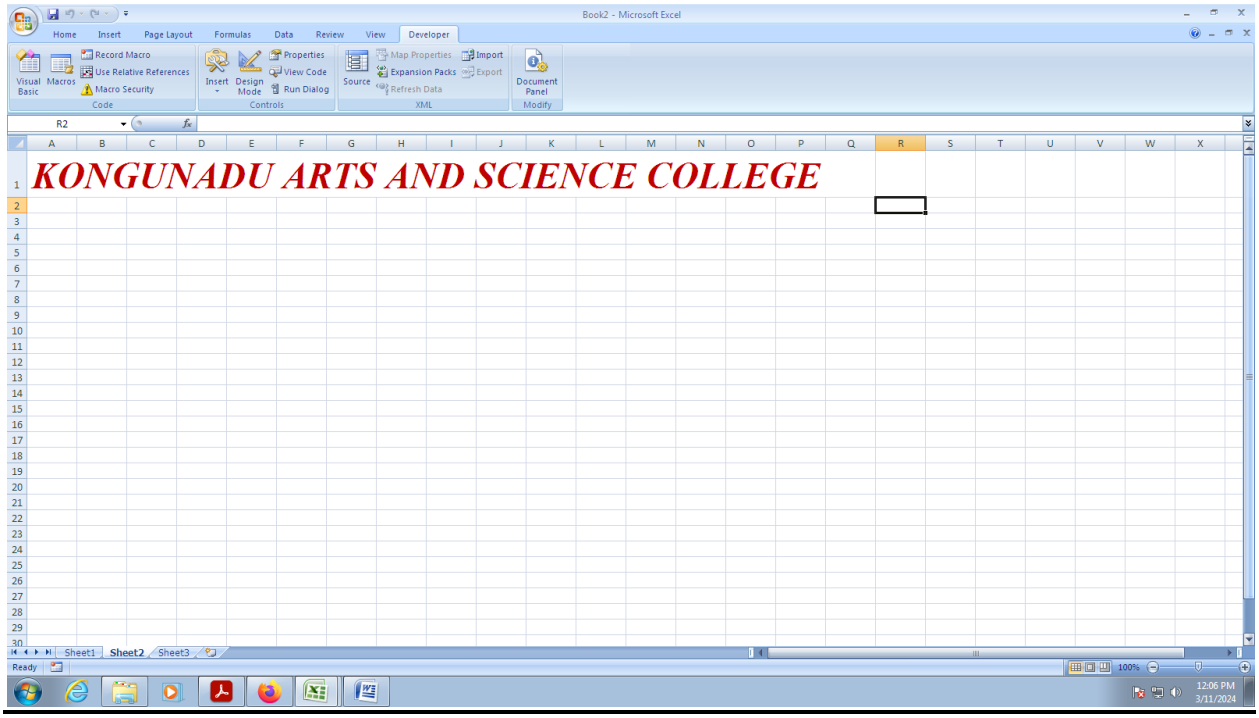

Book2 - Microsoft Excel
Record Macro
Macro name:
Macro1
Shortcut key:
Ctrl+
Store macro in:
This Workbook
Description:
OK
Cancel
Sheet1
Sheet2
Sheet3
Ready


Book2 - Microsoft Excel
KONGUNADU ARTS AND SCIENCE COLLEGE
Sheet1
Sheet2
Sheet3
Ready


Book2 - Microsoft Excel
KONGUNADU ARTS AND SCIENCE COLLEGE
Sheet1
Sheet2
Sheet3
Ready


Book2 - Microsoft Excel
Macro
Macro name:
Macro1
Run
Step Into
Edit
Create
Delete
Options...
Macros in:
All Open Workbooks
Description
Cancel
Sheet1
Sheet2
Sheet3
Enter

OUTPUT:


Book2 - Microsoft Excel
KONGUNADU ARTS AND SCIENCE COLLEGE
Sheet1
Sheet2
Sheet3
Ready

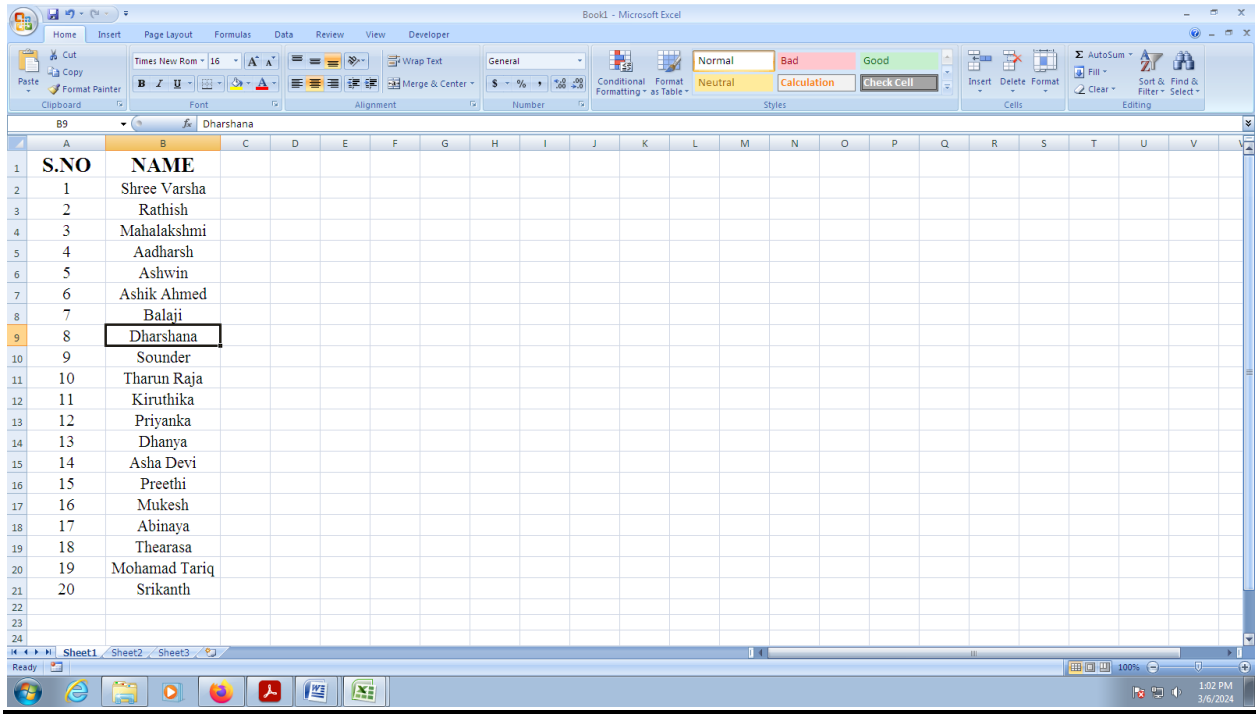
7. TO INSERT A MODULE AND DISPLAY THE ACTIVE CELL VALUE IN TO MESSAGE BOX.

AIM:

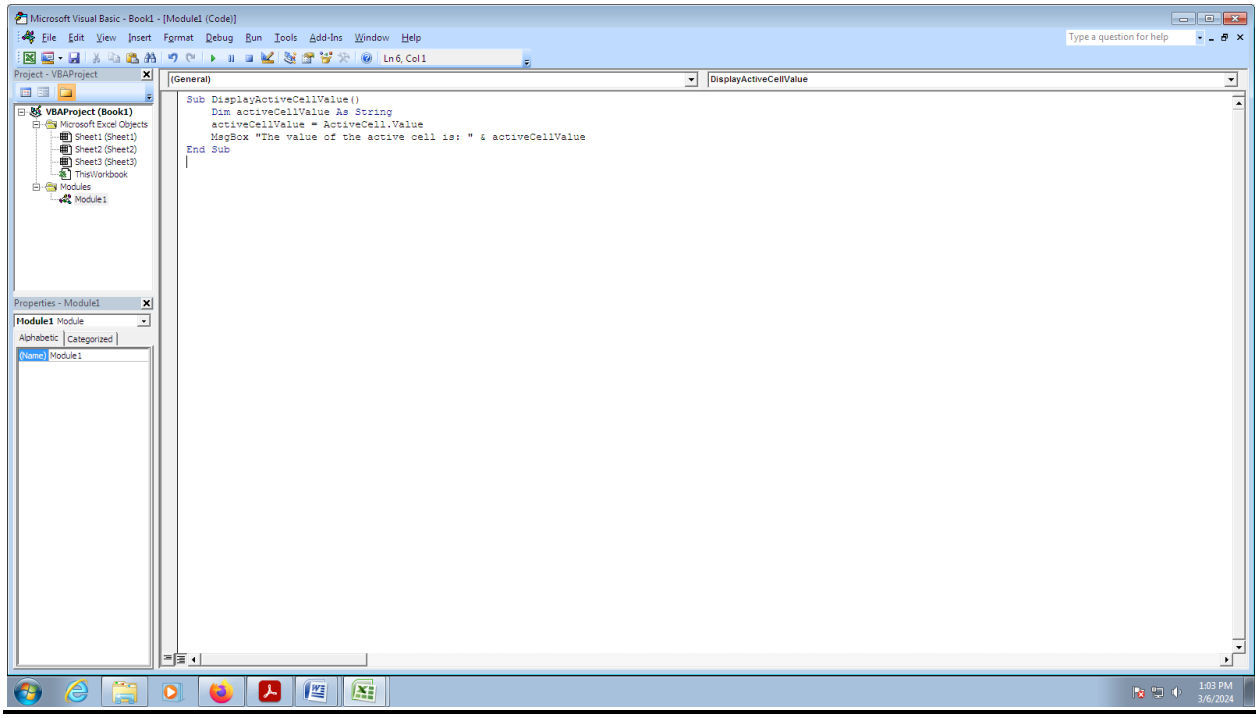
The aim is to insert a module and display the active cell value in to message box.

ALGORITHM:

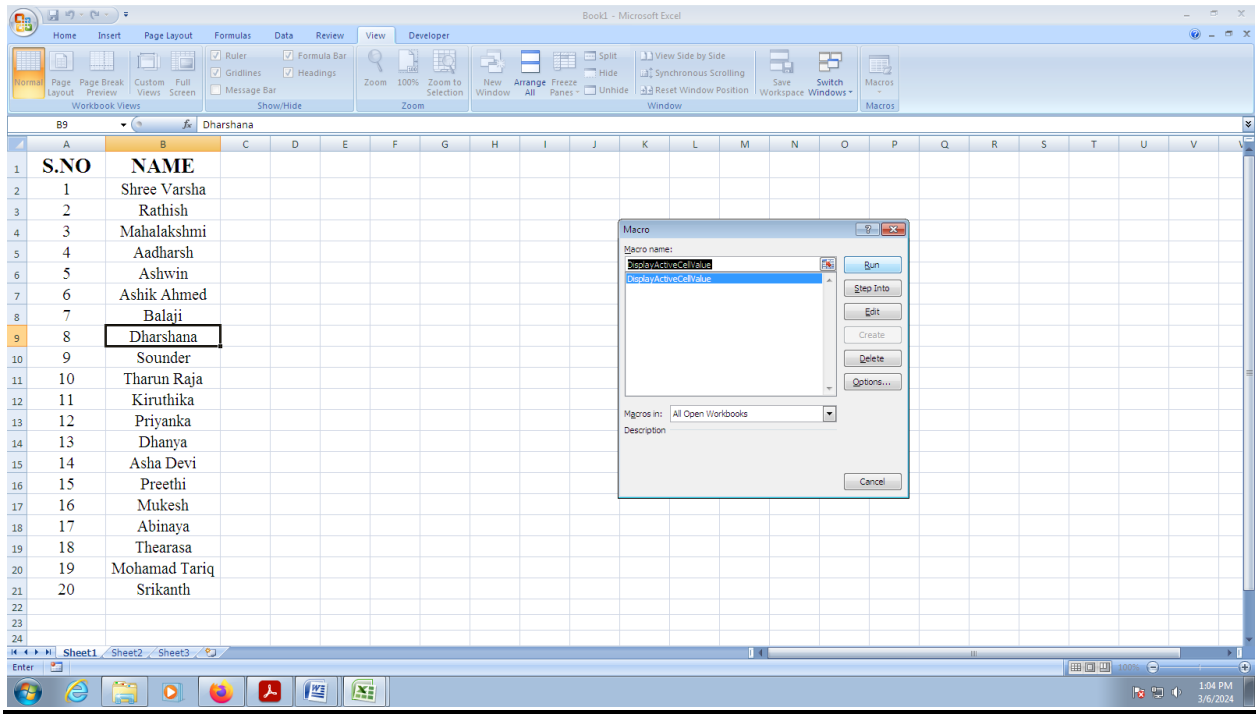
DATA:



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

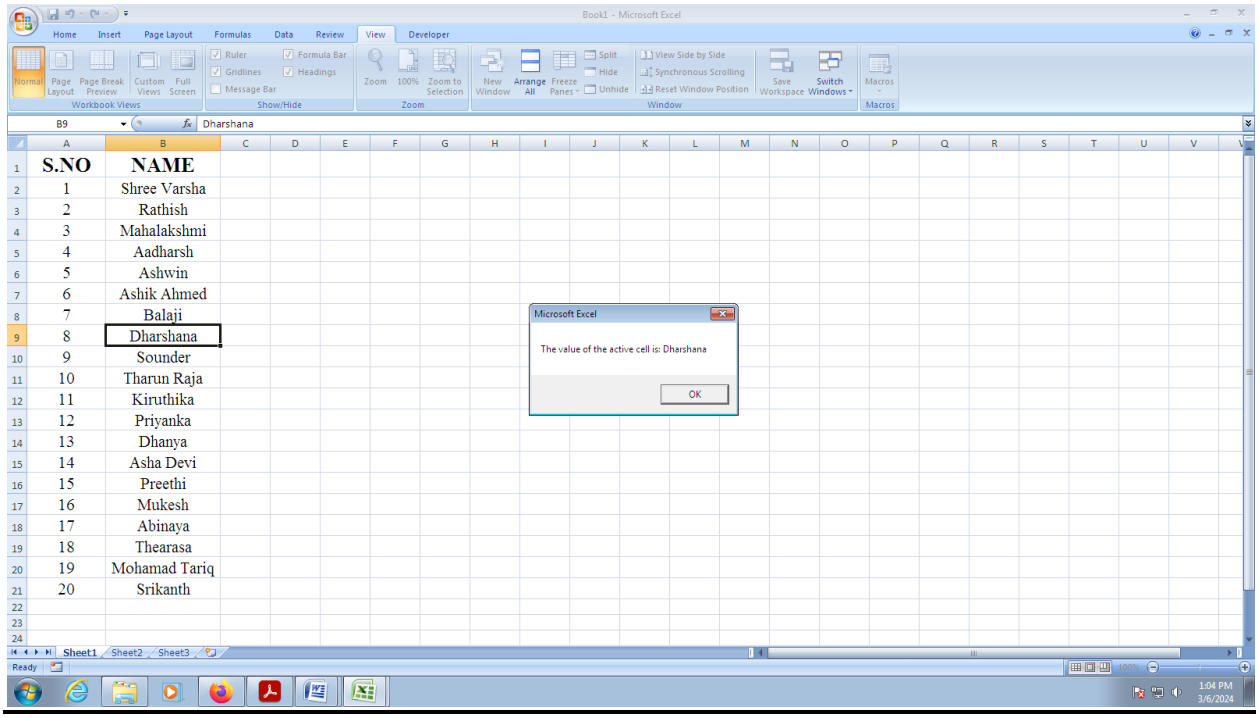


```
Sub DisplayActiveCellValue()
    Dim activeCellValue As String
    activeCellValue = ActiveCell.Value
    MsgBox "The value of the active cell is: " & activeCellValue
End Sub
```



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

OUTPUT:



S.NO	NAME
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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

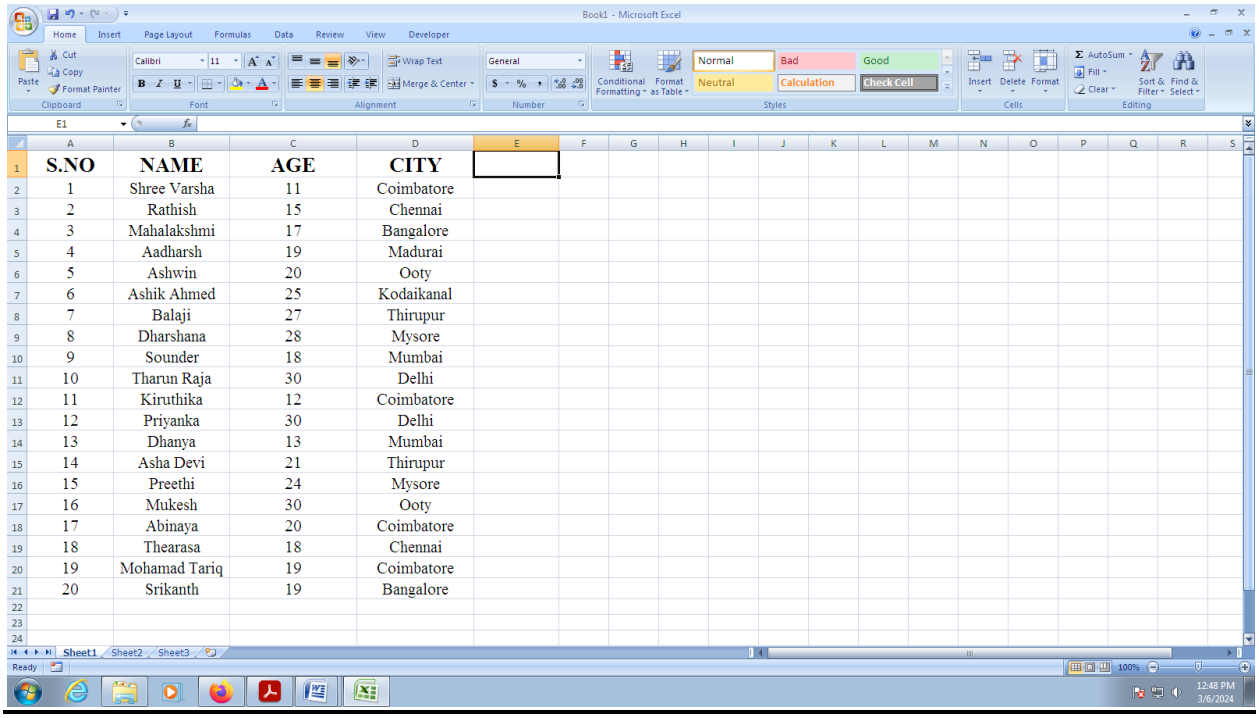
8. TO CREATE A MACRO TO INSERT ROW, COLUMN, SHEETS.

AIM:

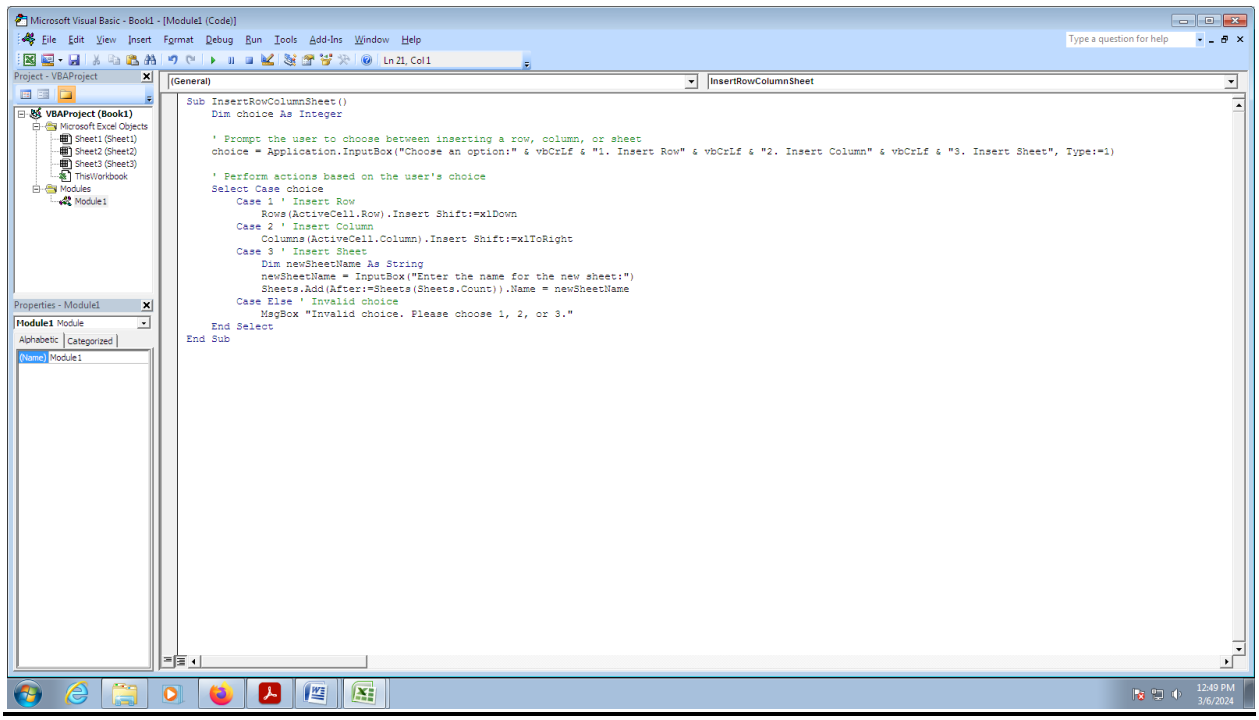
The aim is to create a macro to insert row, column, sheets.

ALGORITHM:

DATA:



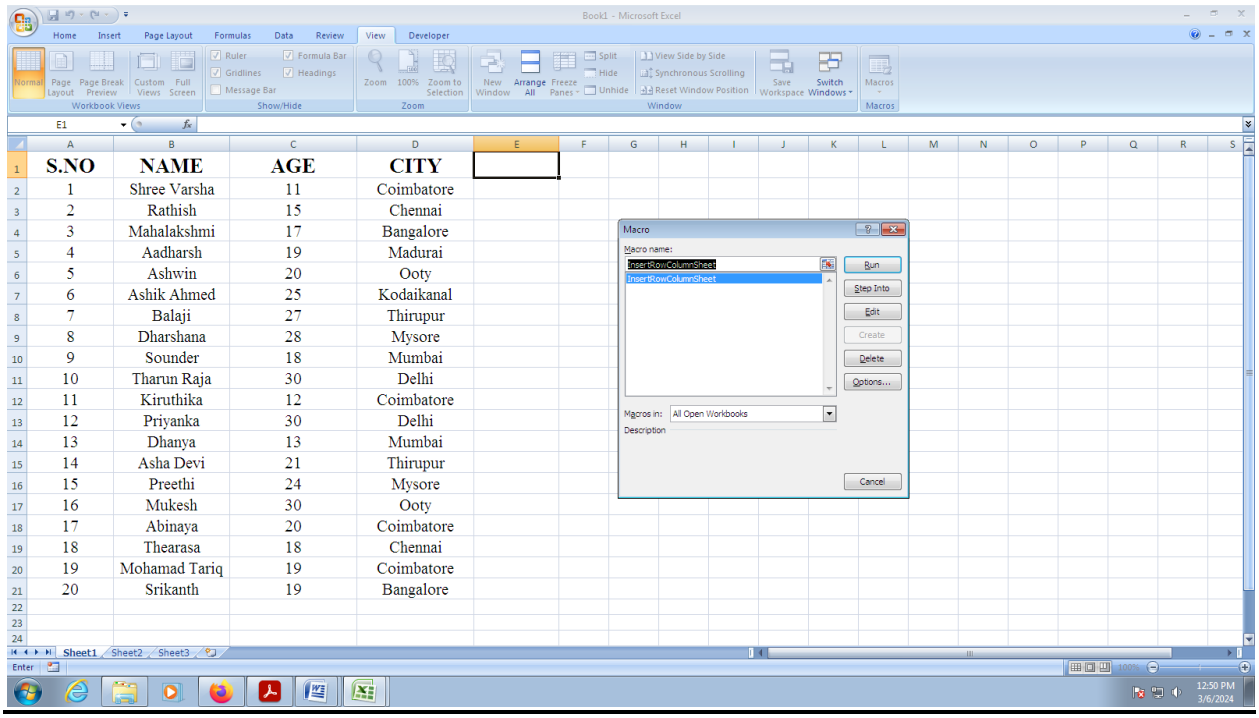
S.NO	NAME	AGE	CITY
1	Shree Varsha	11	Coimbatore
2	Rathish	15	Chennai
3	Mahalakshmi	17	Bangalore
4	Aadharsh	19	Madurai
5	Ashwin	20	Ooty
6	Ashik Ahmed	25	Kodaikanal
7	Balaji	27	Thirupur
8	Dharshana	28	Mysore
9	Sounder	18	Mumbai
10	Tharun Raja	30	Delhi
11	Kiruthika	12	Coimbatore
12	Priyanka	30	Delhi
13	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
```



S.NO	NAME	AGE	CITY
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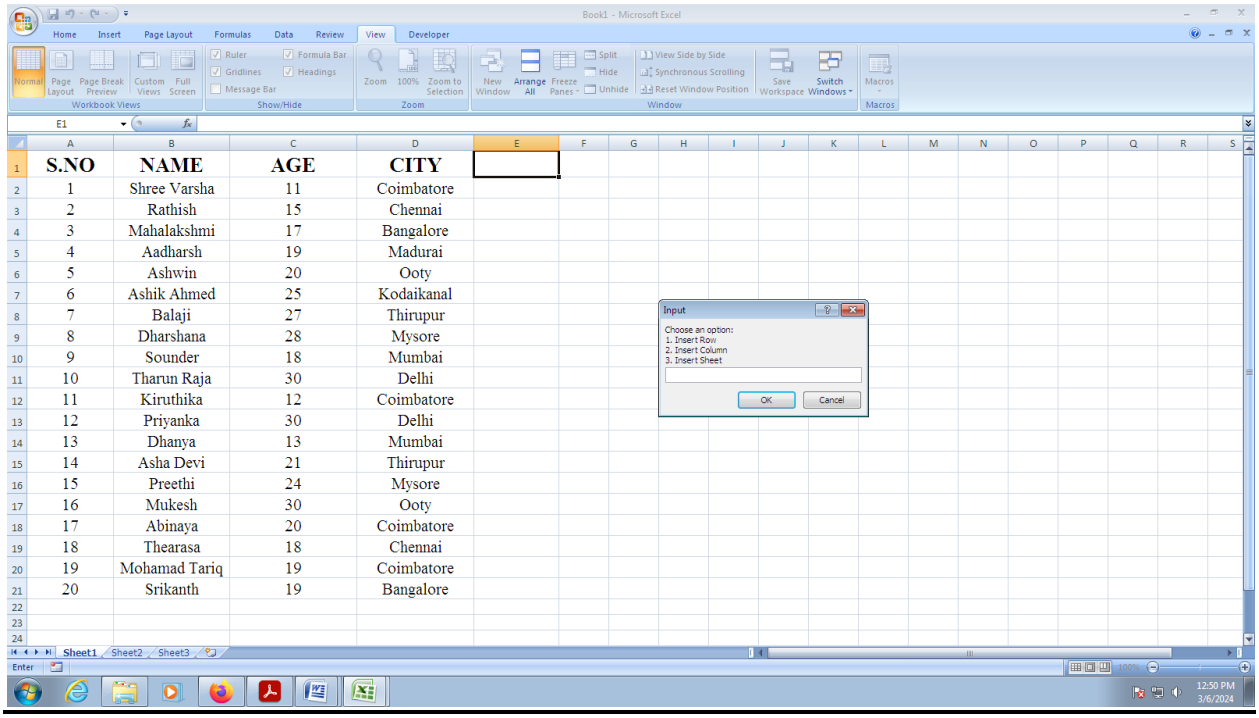

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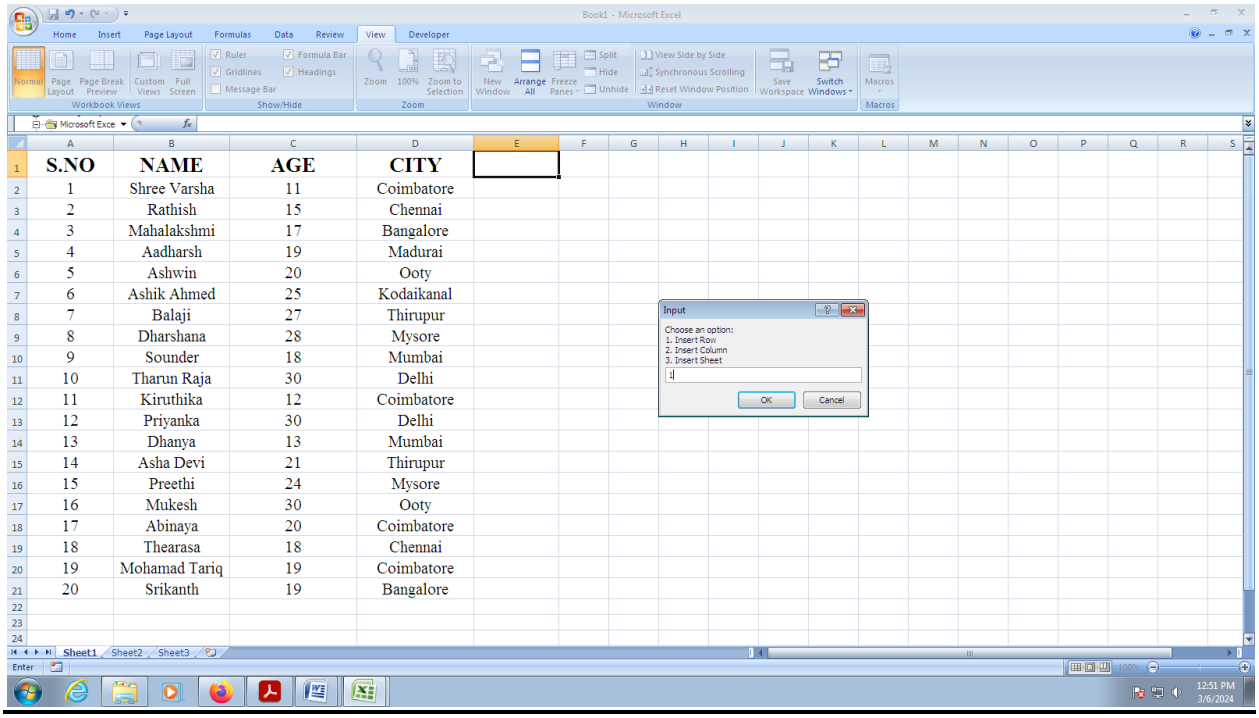
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore

OUTPUT:



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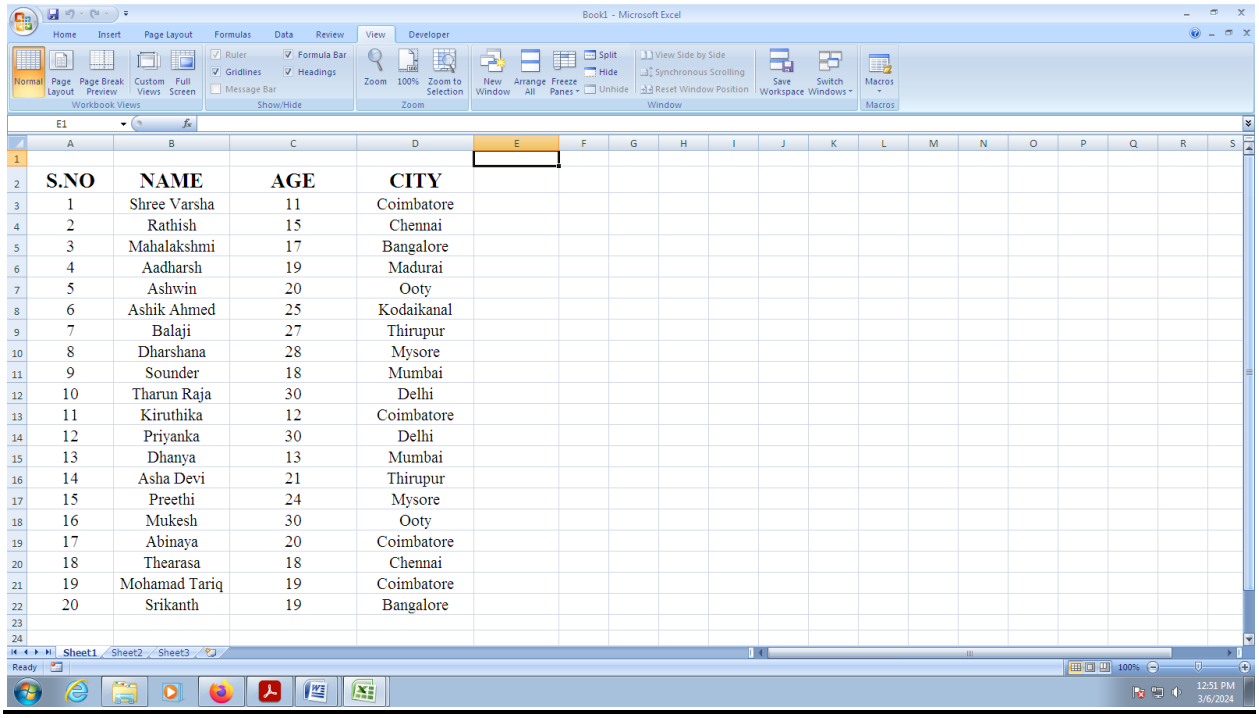

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8	Dharshana	28	Mysore
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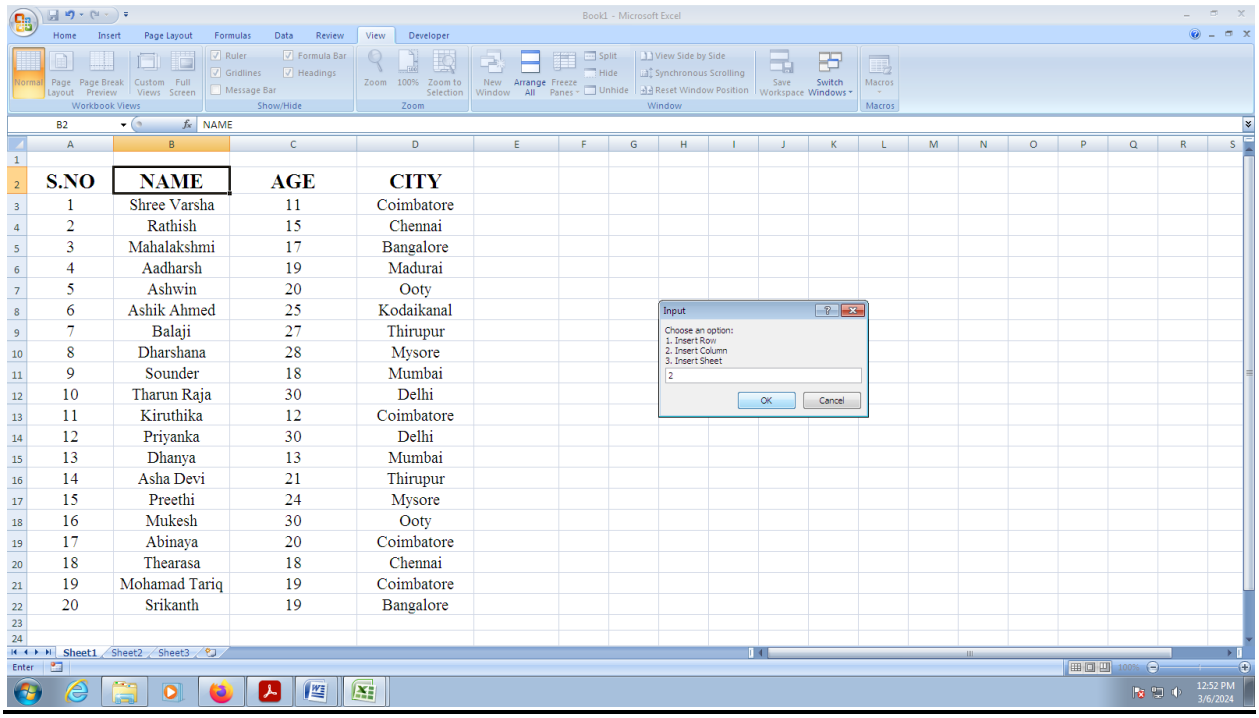
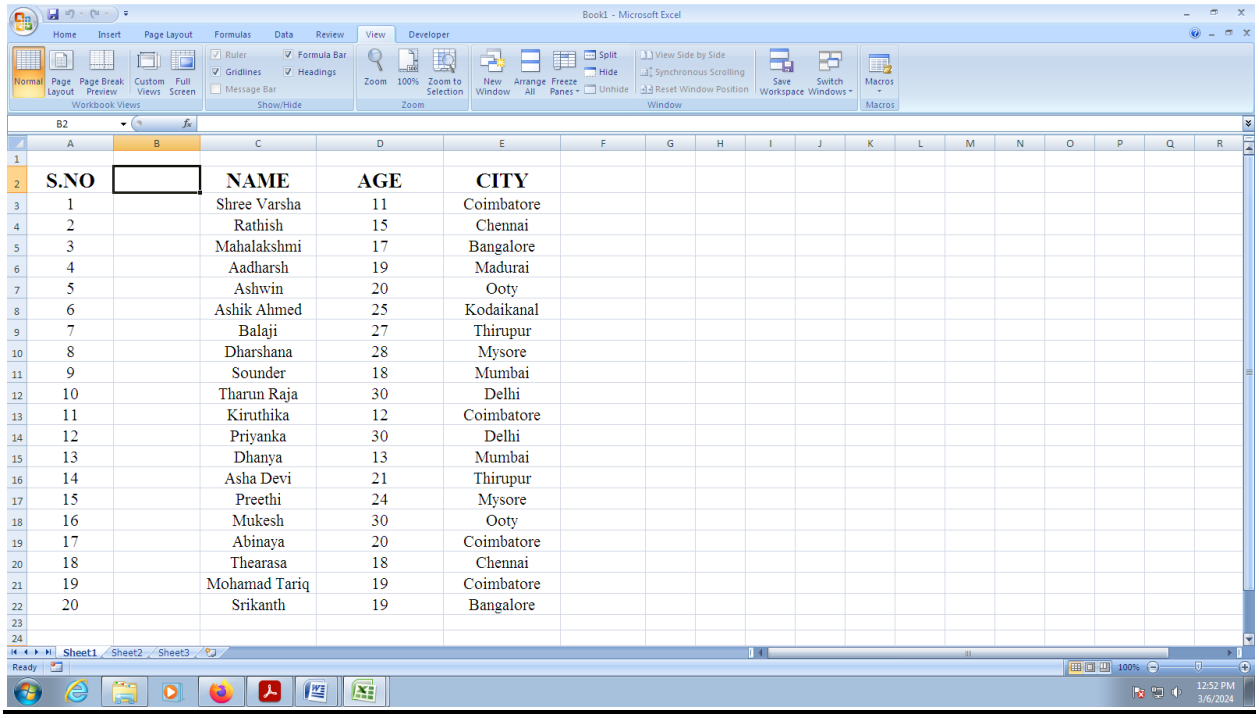
12	Priyanka	30	Delhi
13	Dhanya	13	Mumbai
14	Asha Devi	21	Thirupur
15	Preethi	24	Mysore
16	Mukesh	30	Ooty
17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
20	Srikanth	19	Bangalore



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



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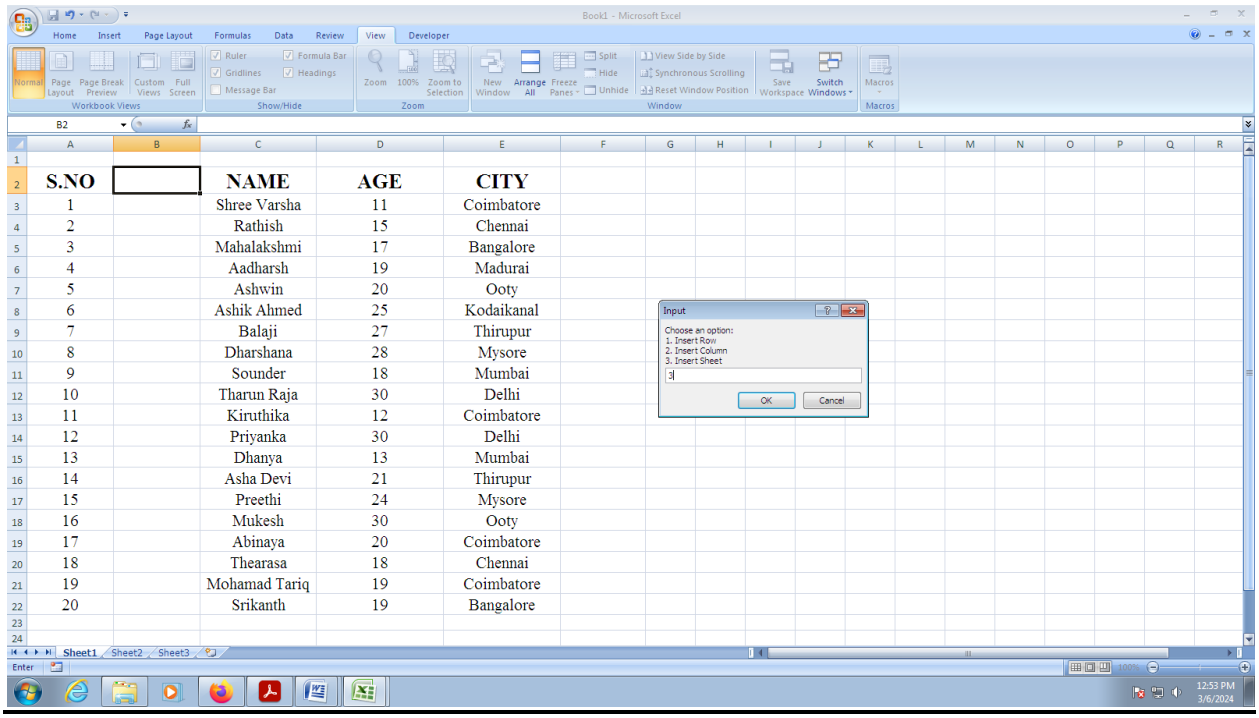
3		Mahalakshmi	17	Bangalore
4		Aadharsh	19	Madurai
5		Ashwin	20	Ooty
6		Ashik Ahmed	25	Kodaikanal
7		Balaji	27	Thirupur
8		Dharshana	28	Mysore
9		Sounder	18	Mumbai
10		Tharun Raja	30	Delhi
11		Kiruthika	12	Coimbatore
12		Priyanka	30	Delhi
13		Dhanya	13	Mumbai
14		Asha Devi	21	Thirupur
15		Preethi	24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



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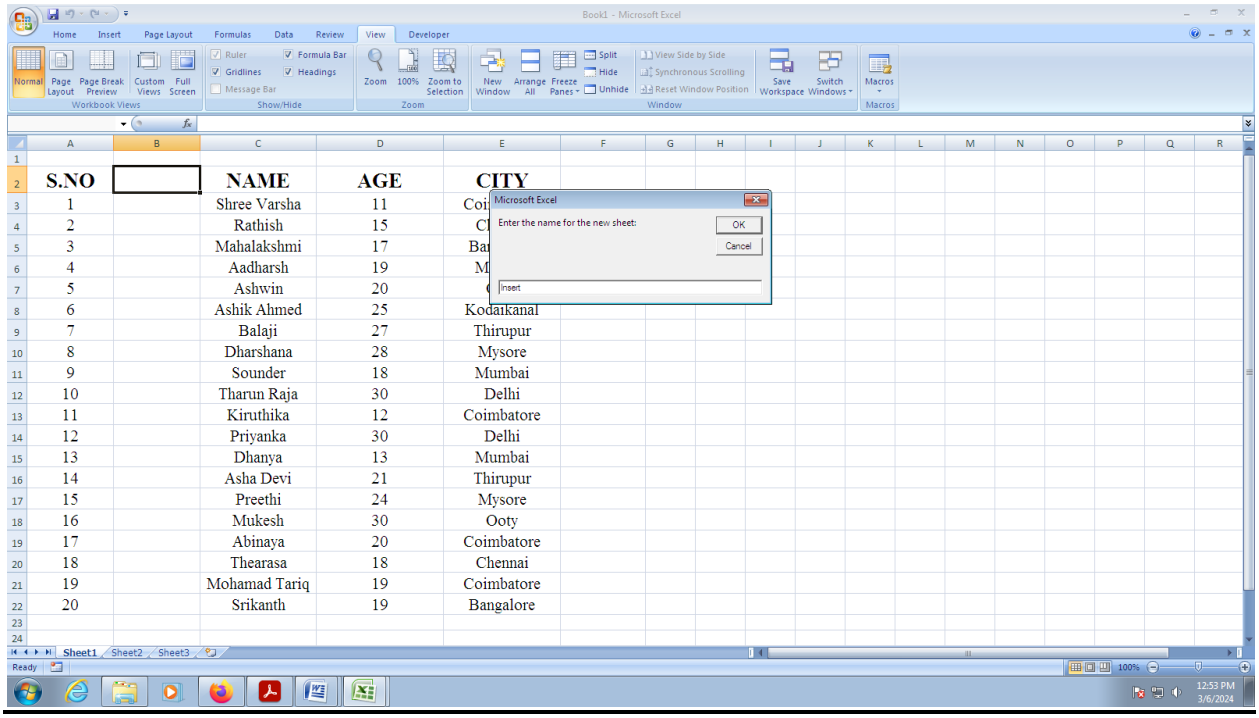
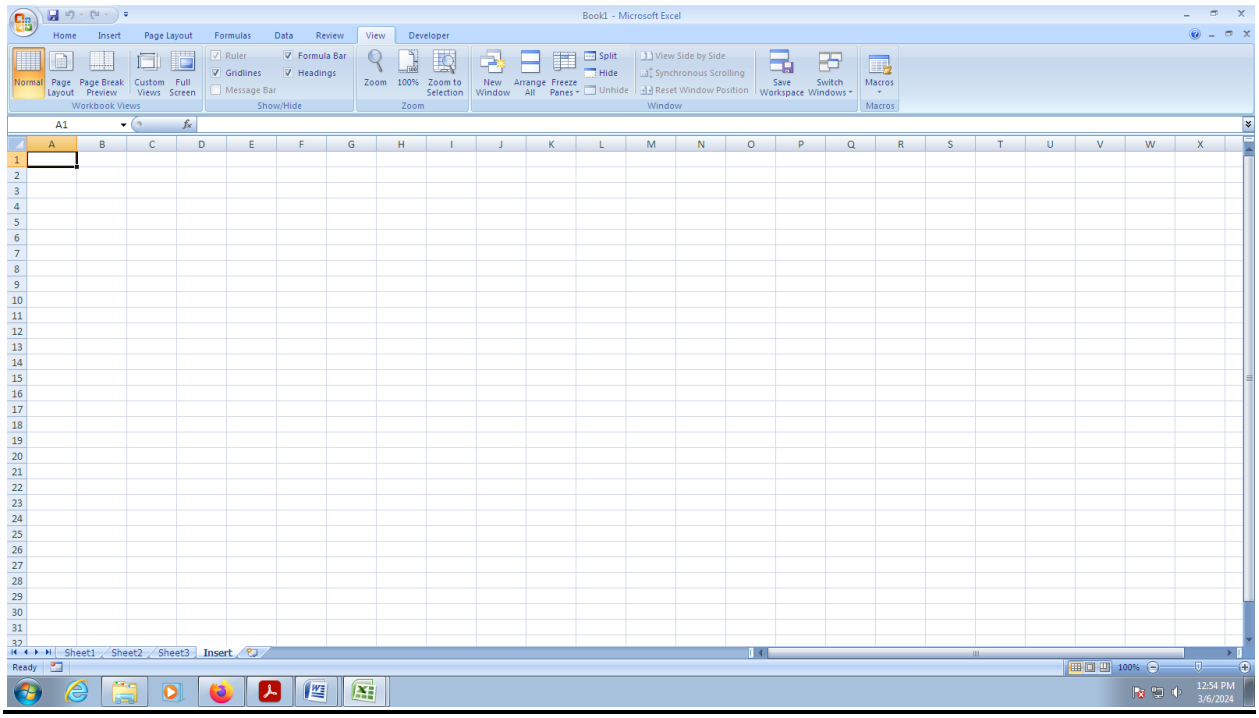
2		Rathish	15	Chennai
3		Mahalakshmi	17	Bangalore
4		Aadharsh	19	Madurai
5		Ashwin	20	Ooty
6		Ashik Ahmed	25	Kodaikanal
7		Balaji	27	Thirupur
8		Dharshana	28	Mysore
9		Sounder	18	Mumbai
10		Tharun Raja	30	Delhi
11		Kiruthika	12	Coimbatore
12		Priyanka	30	Delhi
13		Dhanya	13	Mumbai
14		Asha Devi	21	Thirupur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



S.NO		NAME	AGE	CITY
1		Shree Varsha	11	Coi
2		Rathish	15	C
3		Mahalakshmi	17	Ba
4		Aadharsh	19	M
5		Ashwin	20	
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


Book1 - Microsoft Excel
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
Normal
Page Layout
Page Break Preview
Custom Views
Full Screen
Workbook Views
Ruler
Gridlines
Message Bar
Formula Bar
Headings
Show/Hide
Zoom
100%
Zoom to Selection
Zoom
New Window
Arrange All
Freeze Panes
Split
Hide
Unhide
View Side by Side
Synchronous Scrolling
Reset Window Position
Window
Save Workspace
Switch Windows
Macros
A1
Sheet1
Sheet2
Sheet3
Insert
Ready
100%
12:54 PM
3/6/2024

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

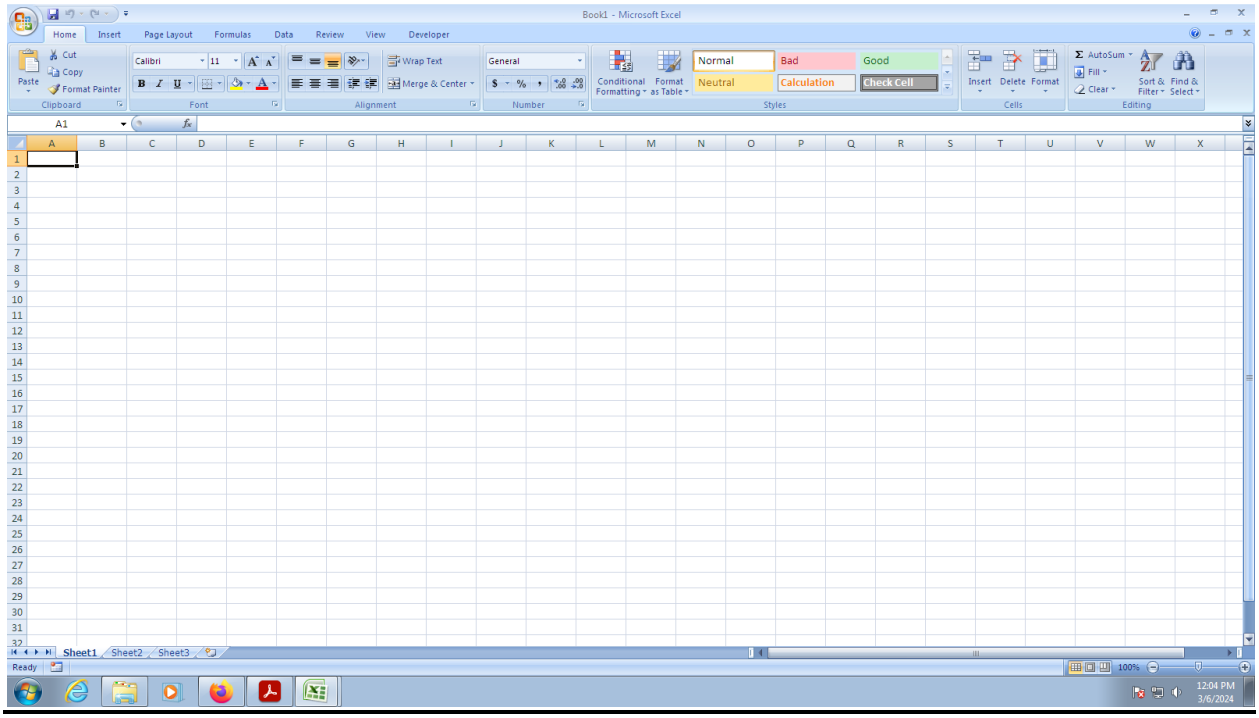
AIM:

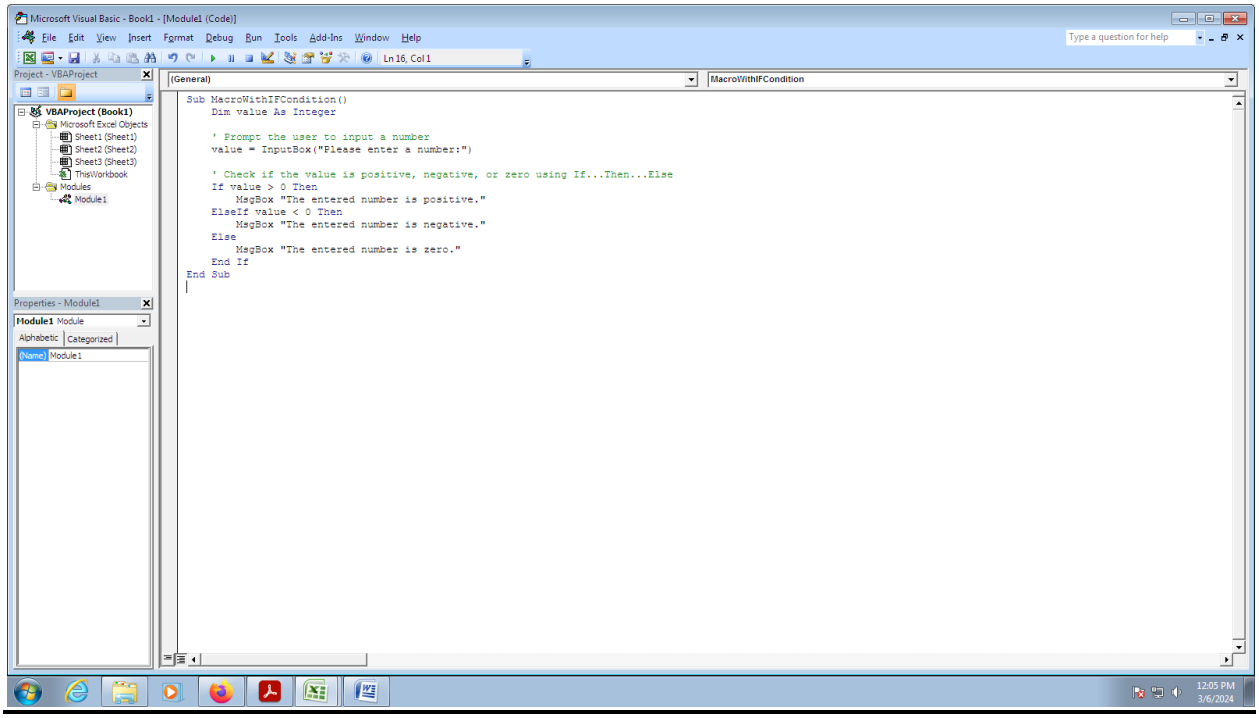
The aim is to create a Macro with conditions using IF , Select case.

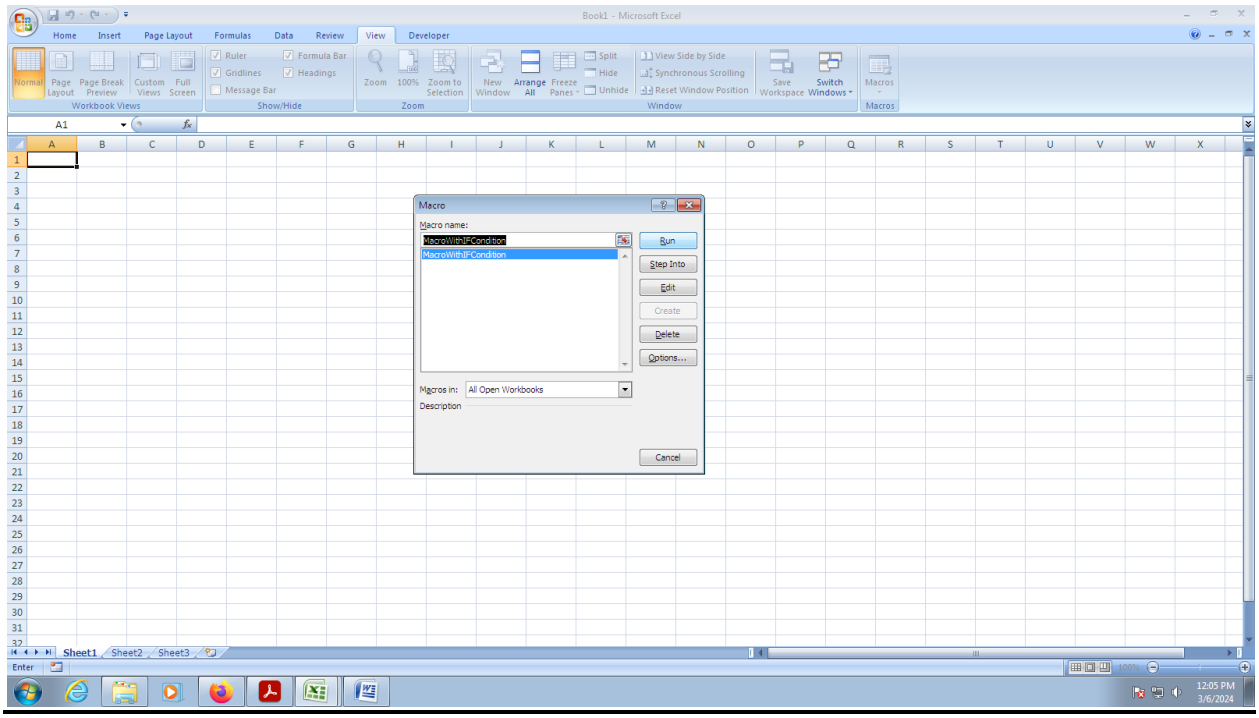
ALGORITHM:

DATA:

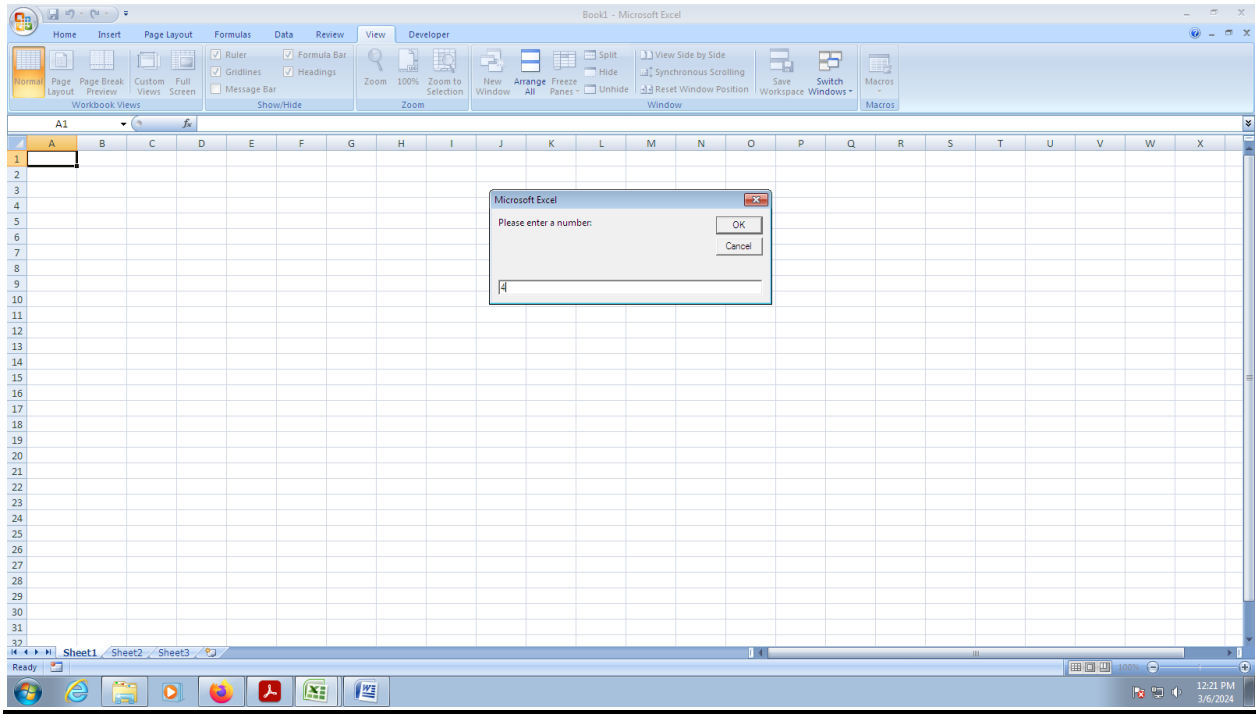
USING IF

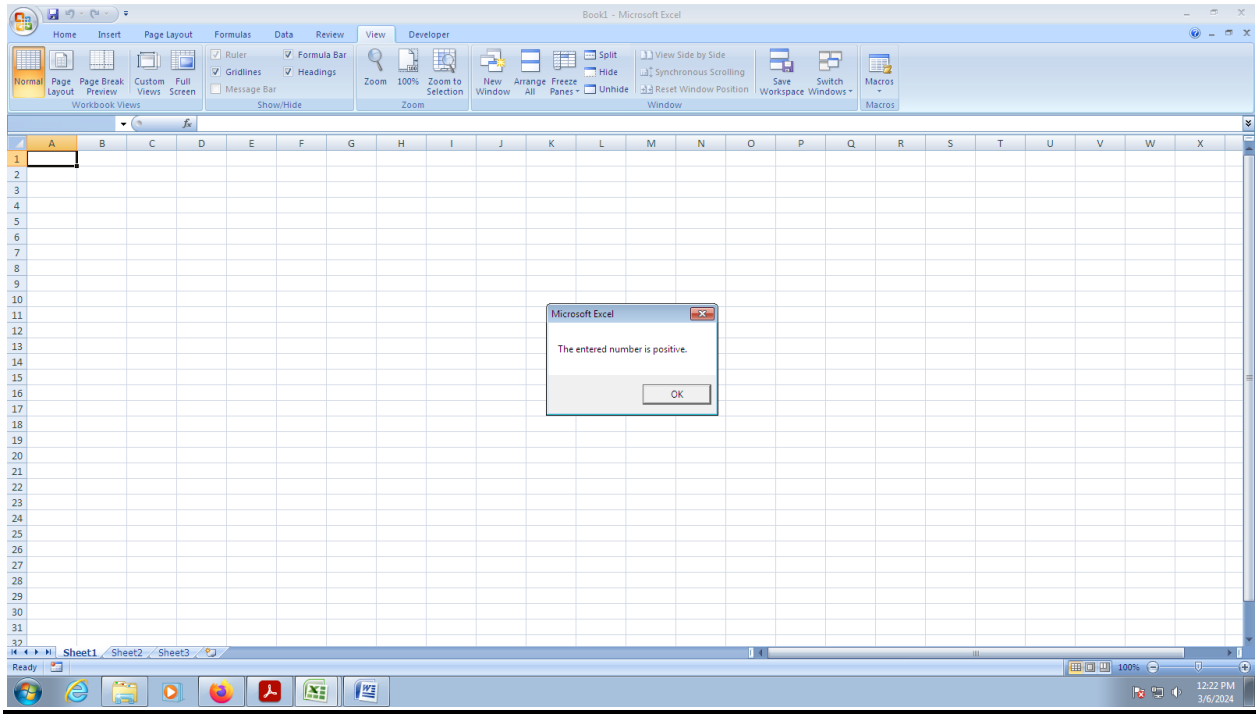




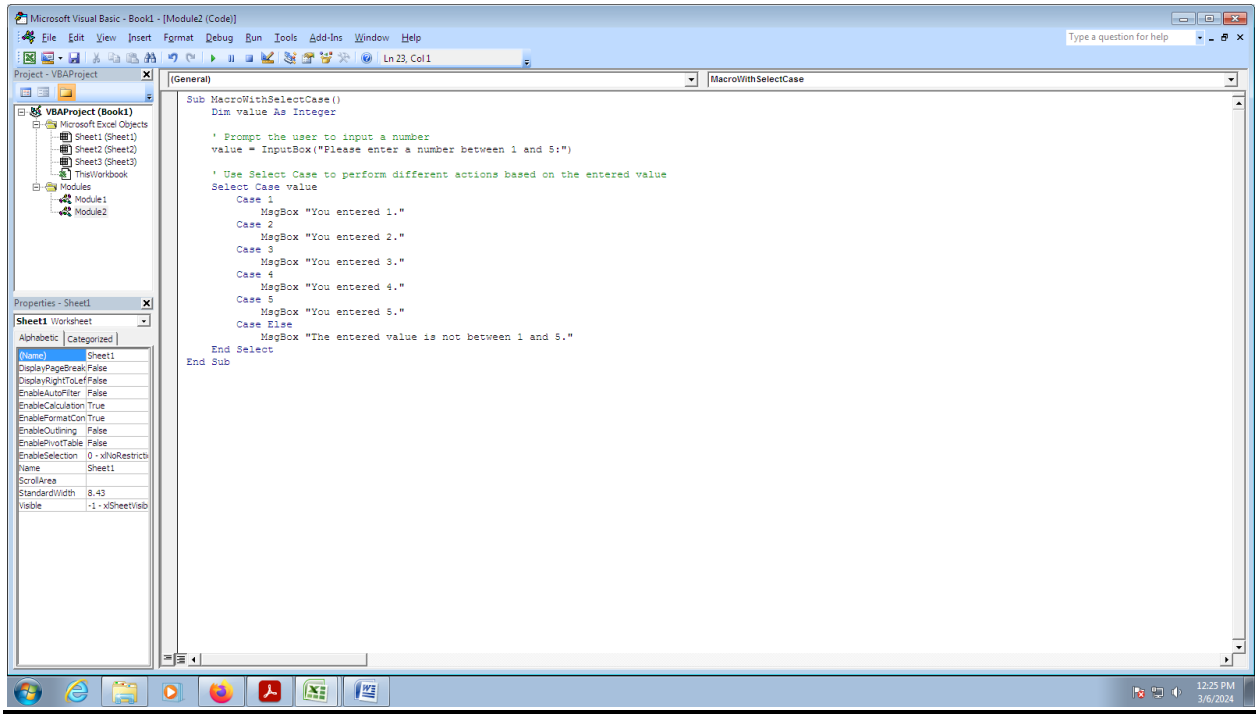

Book1 - Microsoft Excel
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
Macro
Macro name:
MacroWithIFCondition
Run
Step Into
Edit
Create
Delete
Options...
Macros in:
All Open Workbooks
Description
Cancel
Sheet1
Sheet2
Sheet3
Enter
12:05 PM
3/6/2024

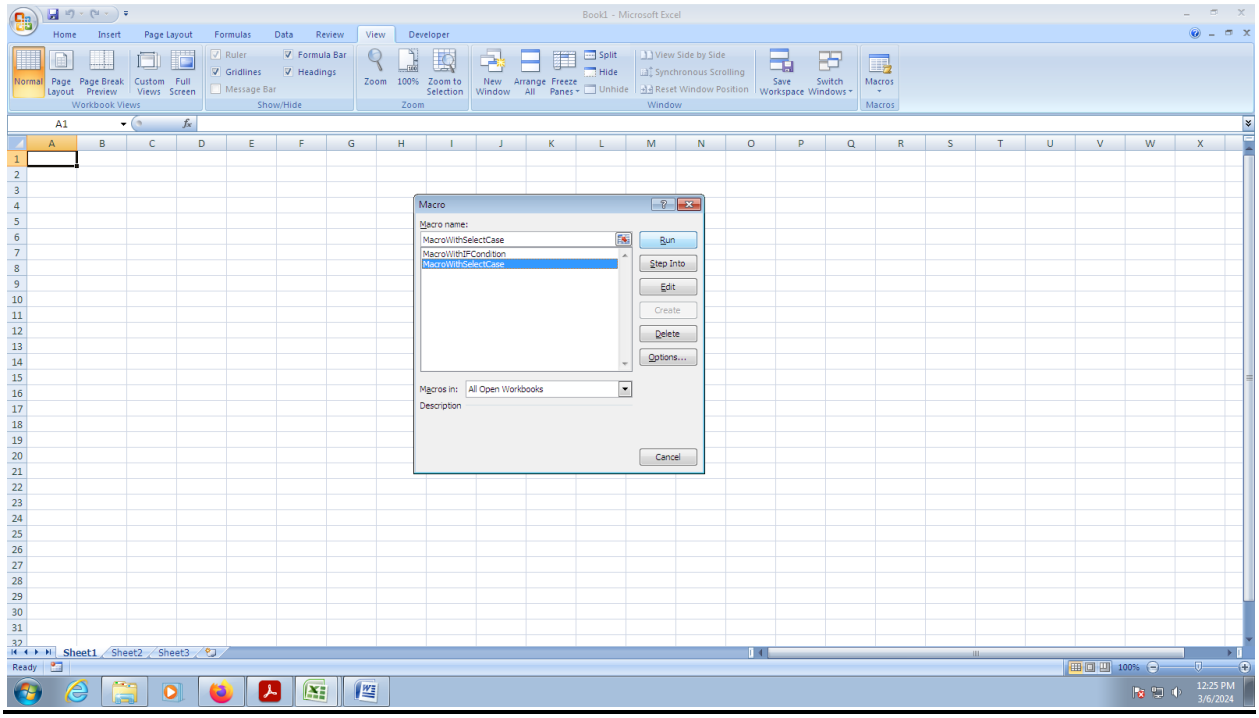
OUTPUT:


Book1 - Microsoft Excel
Microsoft Excel
Please enter a number:
OK
Cancel
4
Sheet1
Sheet2
Sheet3
Ready
12:21 PM
3/6/2024

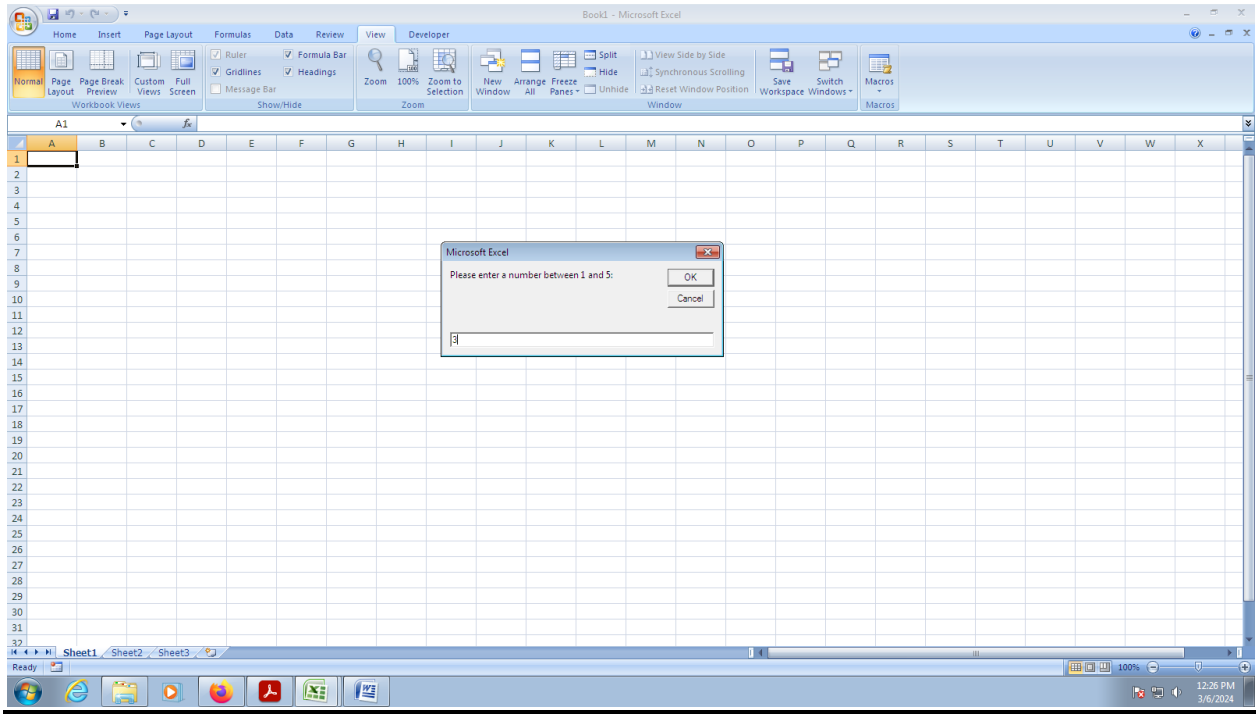

Book1 - Microsoft Excel
Microsoft Excel
The entered number is positive.
OK
Sheet1
Sheet2
Sheet3
Ready
12:22 PM
3/6/2024

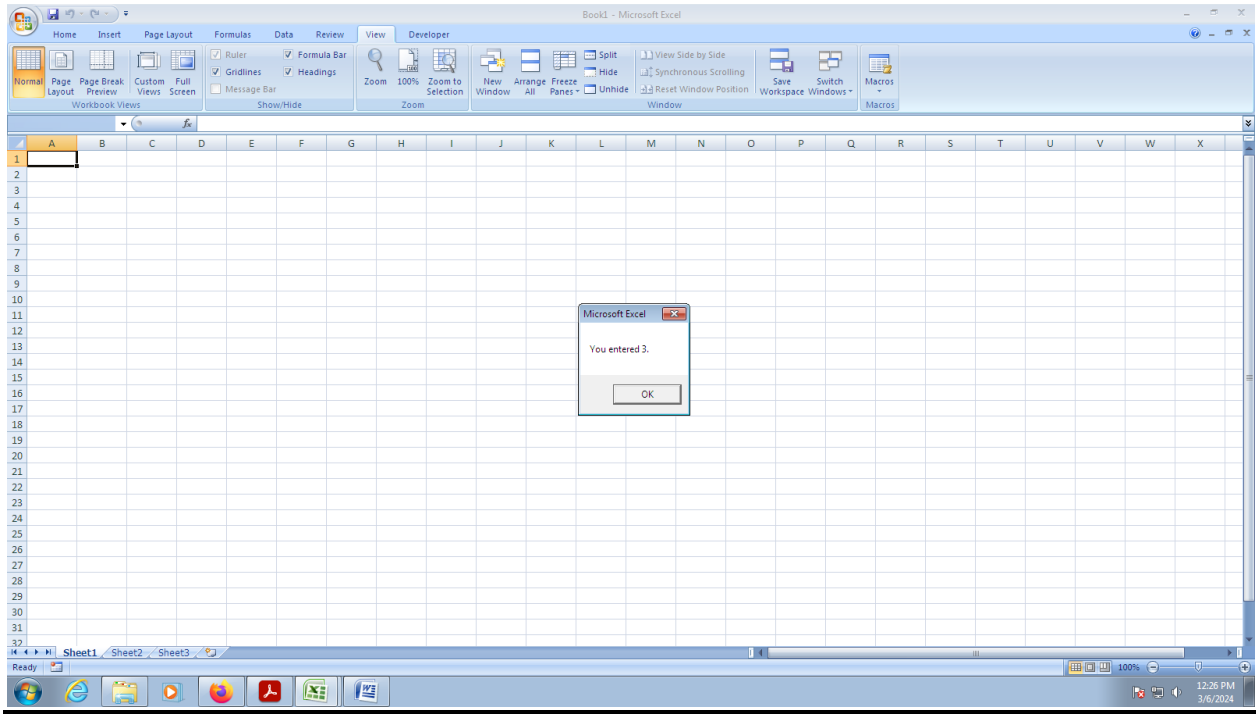
USING SELECT CASE





OUTPUT:


Book1 - Microsoft Excel
Microsoft Excel
Please enter a number between 1 and 5:
OK
Cancel
3
Sheet1
Sheet2
Sheet3
Ready


Book1 - Microsoft Excel
Microsoft Excel
You entered 3.
OK
Sheet1
Sheet2
Sheet3
Ready

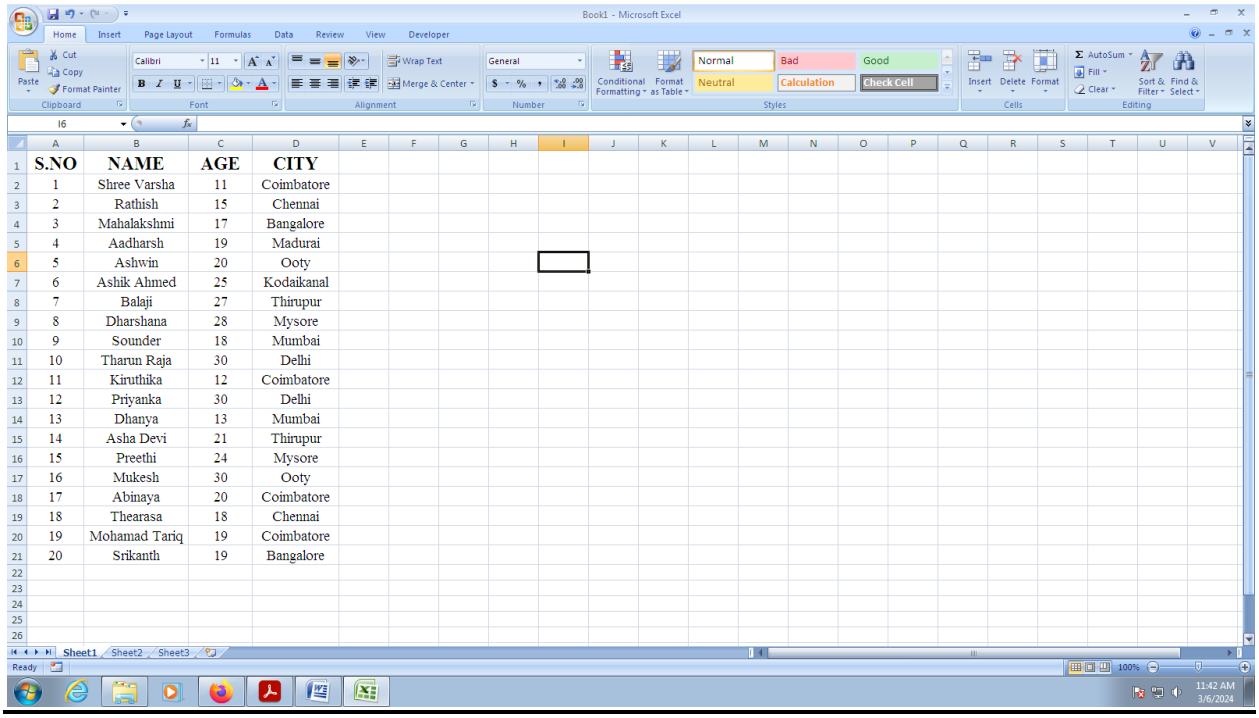
10.TO SPLIT DATA INTO MULTIPLE SHEETS USING VBA..

AIM:

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

ALGORITHM:

DATA:



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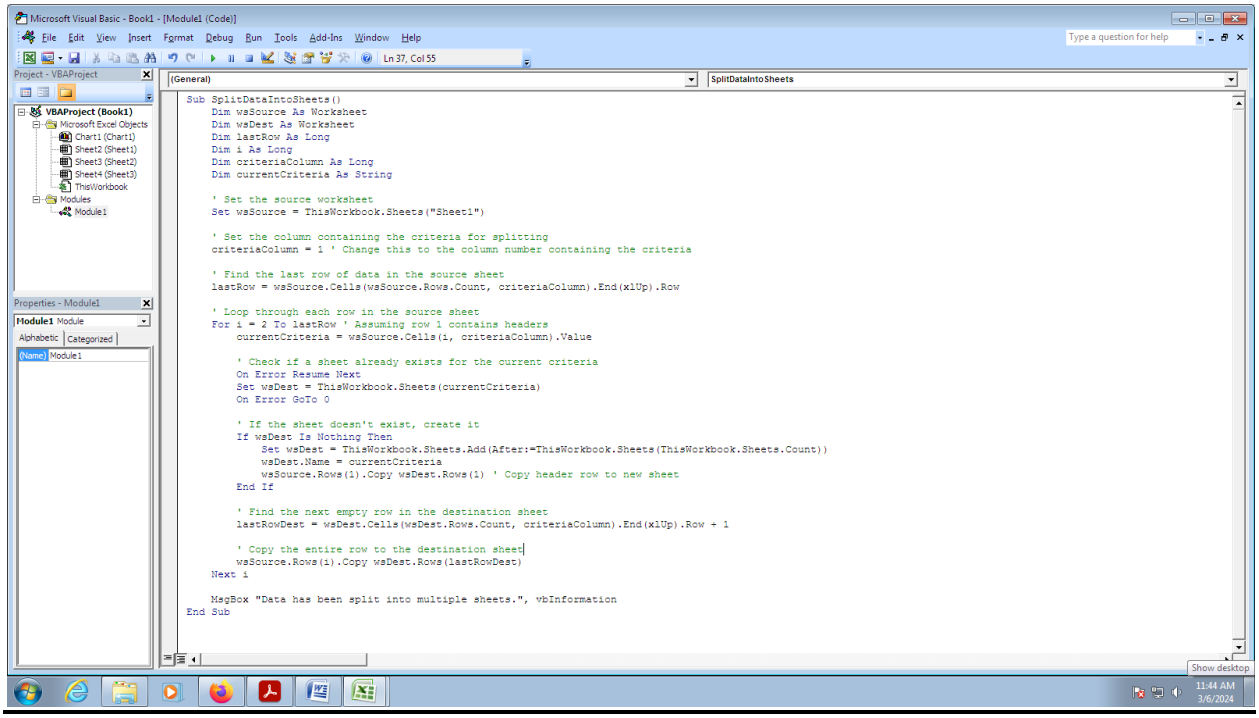
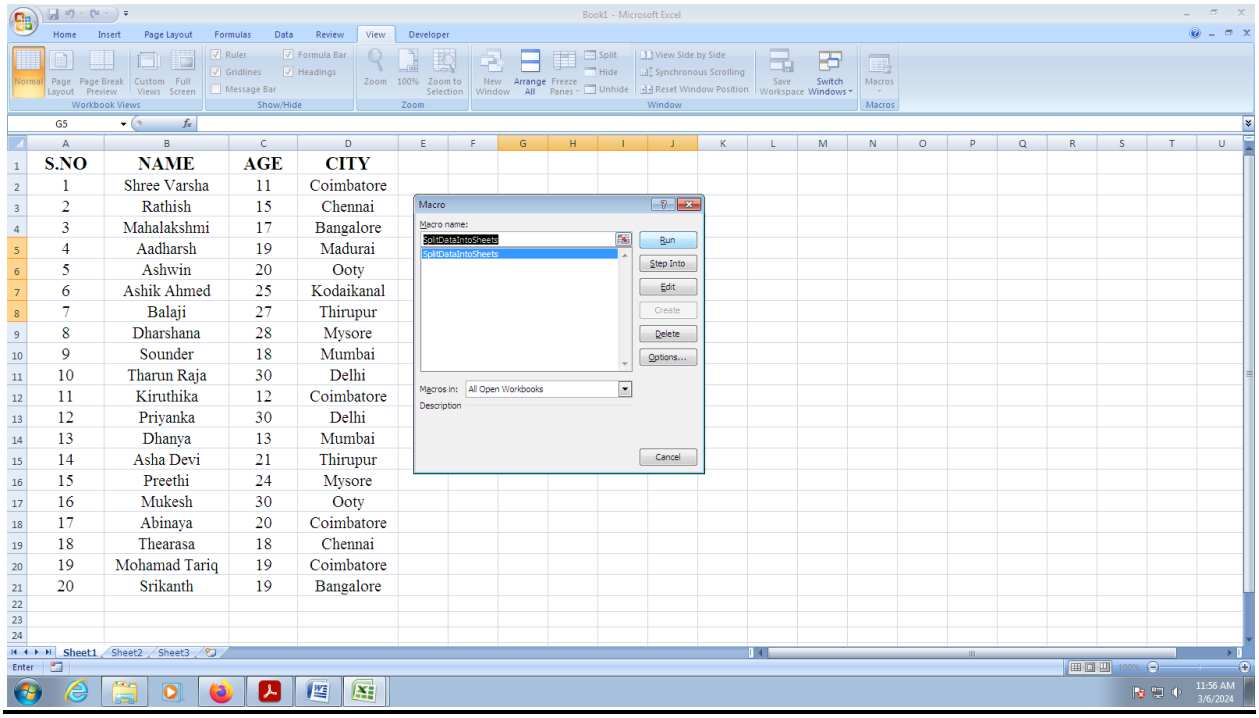


```
Sub SplitDataIntoSheets()
    Dim wsSource As Worksheet
    Dim wsDest As Worksheet
    Dim lastRow As Long
    Dim i As Long
    Dim criteriaColumn As Long
    Dim currentCriteria As String

    ' 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
```



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17	Abinaya	20	Coimbatore
18	Thearasa	18	Chennai
19	Mohamad Tariq	19	Coimbatore
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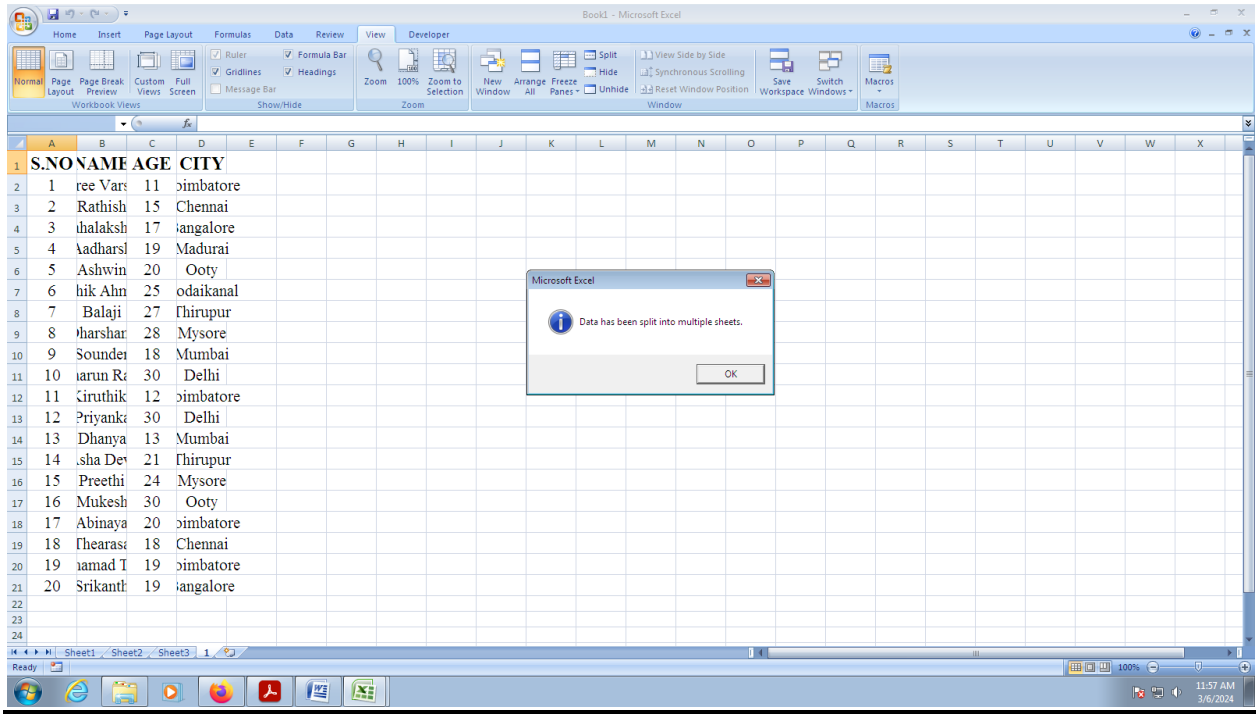
OUTPUT:


Book1 - Microsoft Excel
Microsoft Excel
Data has been split into multiple sheets.
OK
Sheet1
Sheet2
Sheet3
Ready