Advance Excel Assignment 21

1. Write a VBA code to enter your name in A1 Cell using Input Box and once you enter the name display a message box that says the name has been entered.

2. What are User forms? Why are they used? How to fill a list box using for loop?

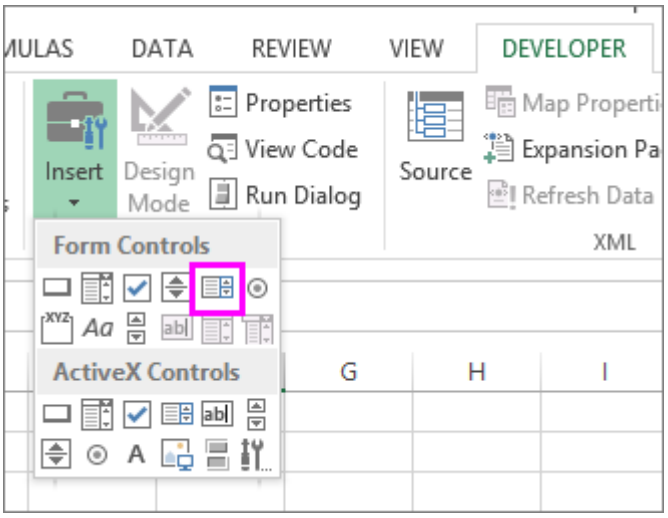
1. A UserForm object is a window or dialog box that makes up part of an application's user interface. The UserForms collection is a collection whose elements represent each loaded UserForm in an application. The UserForms collection has a Count property, an Item method, and an Add method. A UserForm is basically a pop-up window that you can use to create a custom interface for Excel. This pop-up window allows you to have a more user-friendly interface and to automate Excel in many ways using VBA and macros. Create a list of items that you want to displayed in your list box like in this picture.

	A
1	Ice-cream
2	Cake
3	Sorbet
4	Candy
5	Chocolate
6	

2. Click **Developer** > **Insert**.

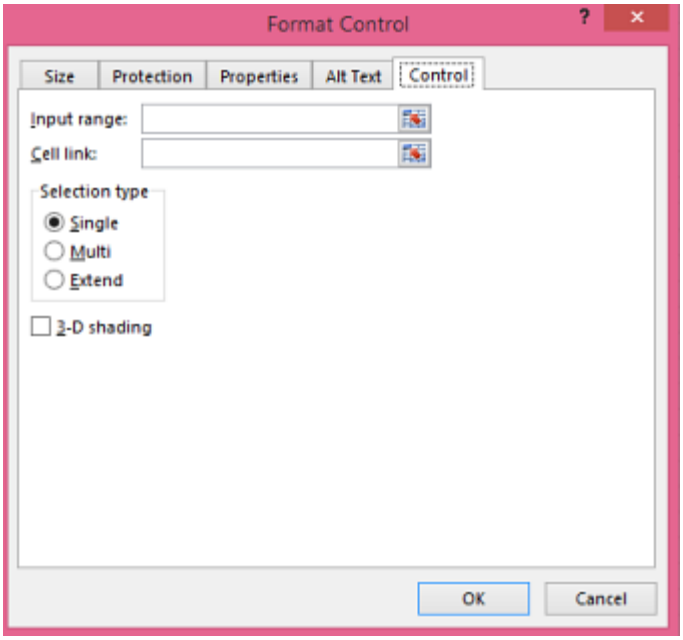
Note: If the **Developer** tab isn't visible, click **File** > **Options** > **Customize Ribbon**. In the **Main Tabs** list, check the **Developer** box, and then click **OK**.

3. Under **Form Controls**, click **List box (Form Control)**.



4. Click the cell where you want to create the list box.

5. Click **Properties** > **Control** and set the required properties:



3. What is an array? Write a VBA code to enter students and their marks from the below table.

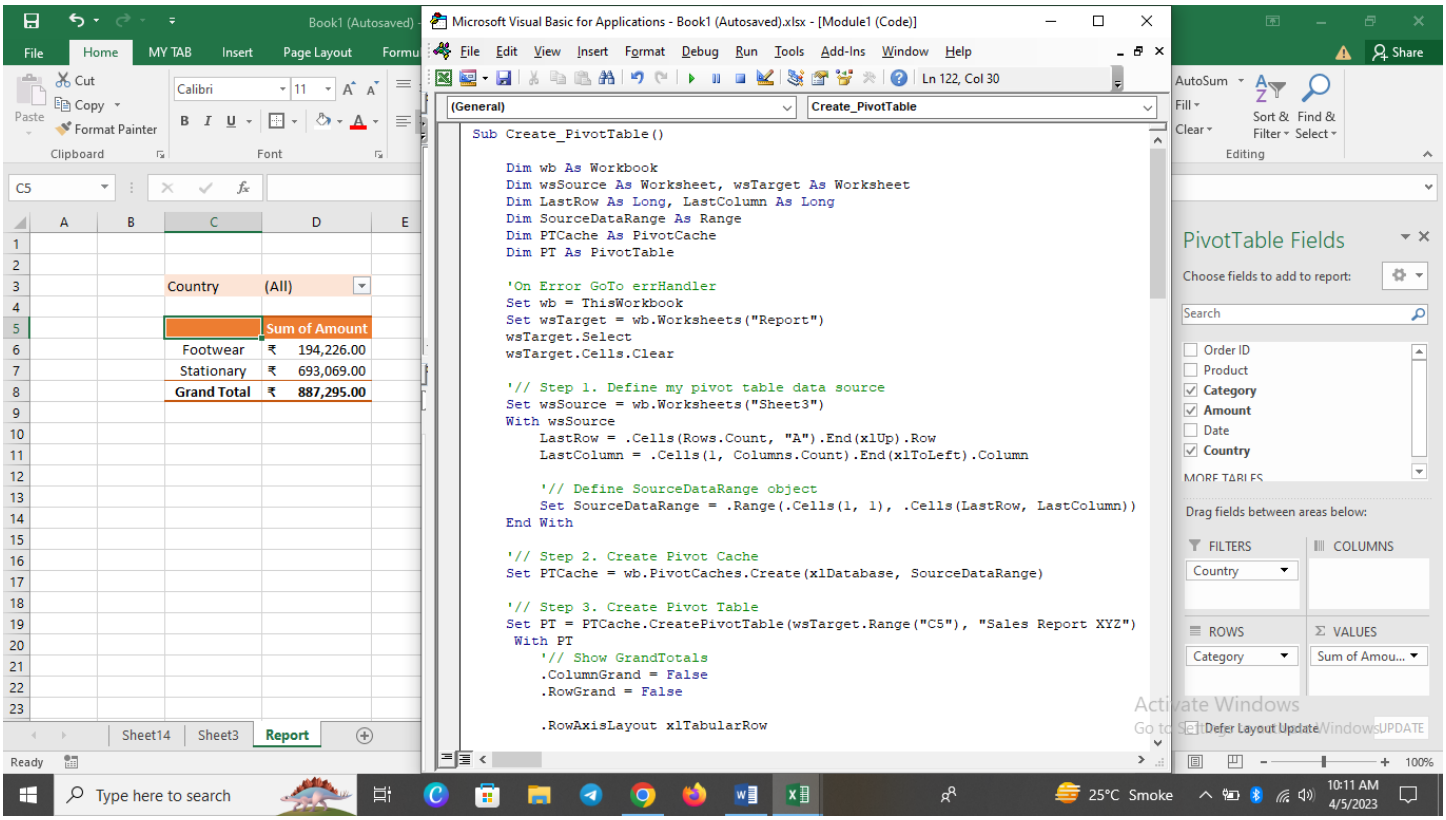
You can think of an array as a row or column of values, or a combination of rows and columns of values. Array formulas can return either multiple results, or a single result.

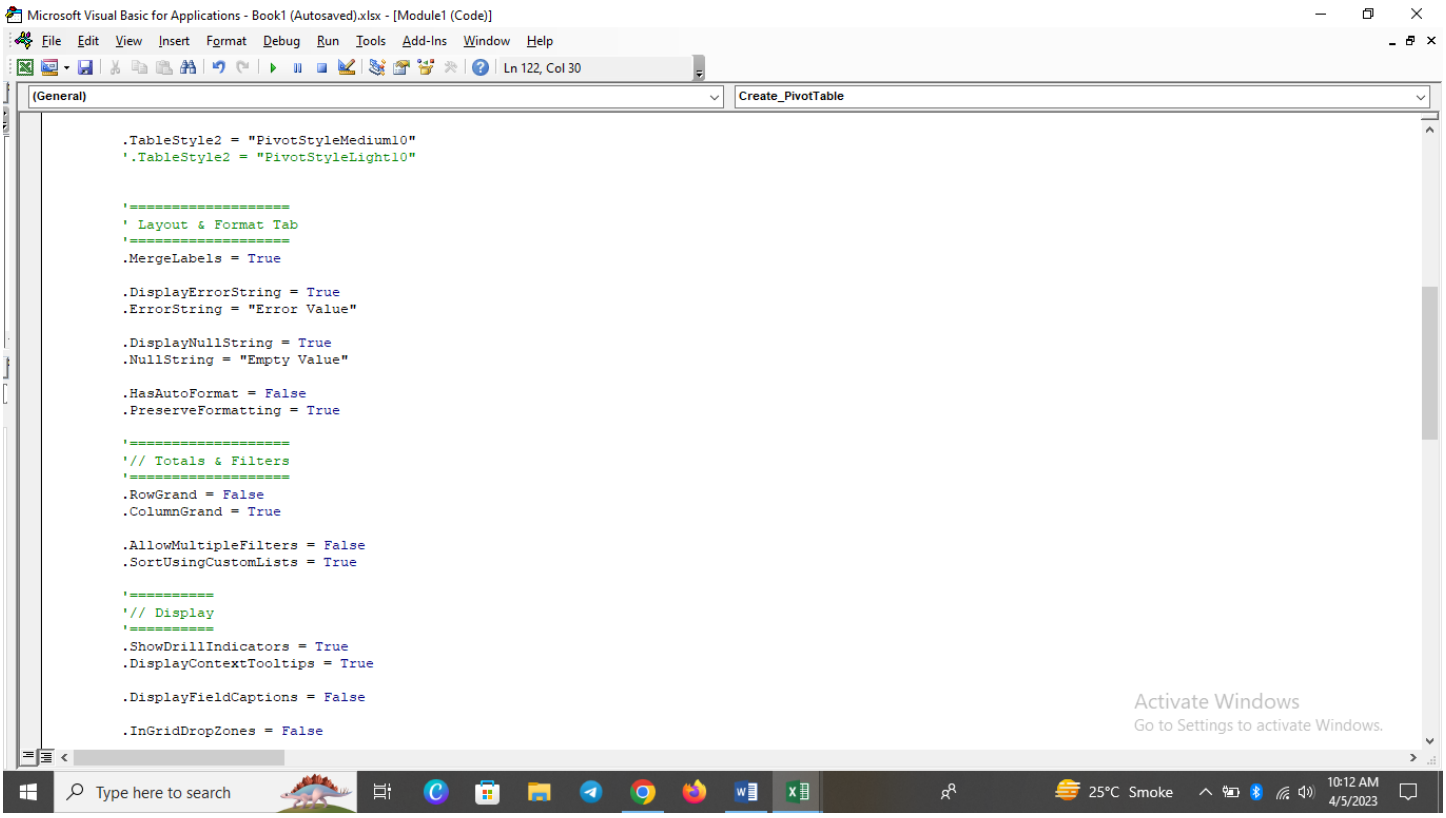
Since which data we need to use is missing.

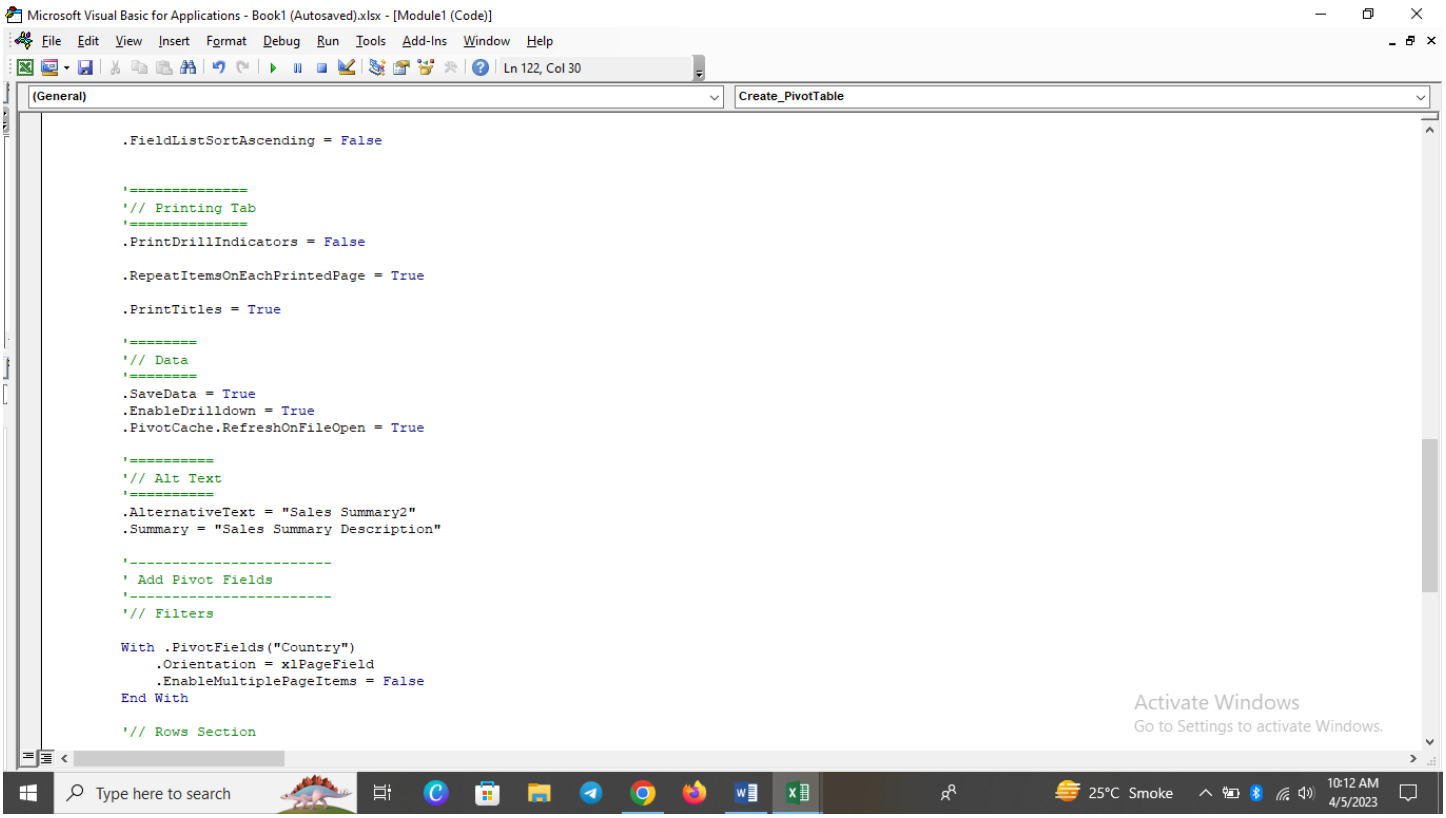
4. Use the following data to create a pie chart using VBA code. Use Font - 'Times new Roman', Size -14, Bold, Title - Piechart' and you are per to use colours as per your taste.

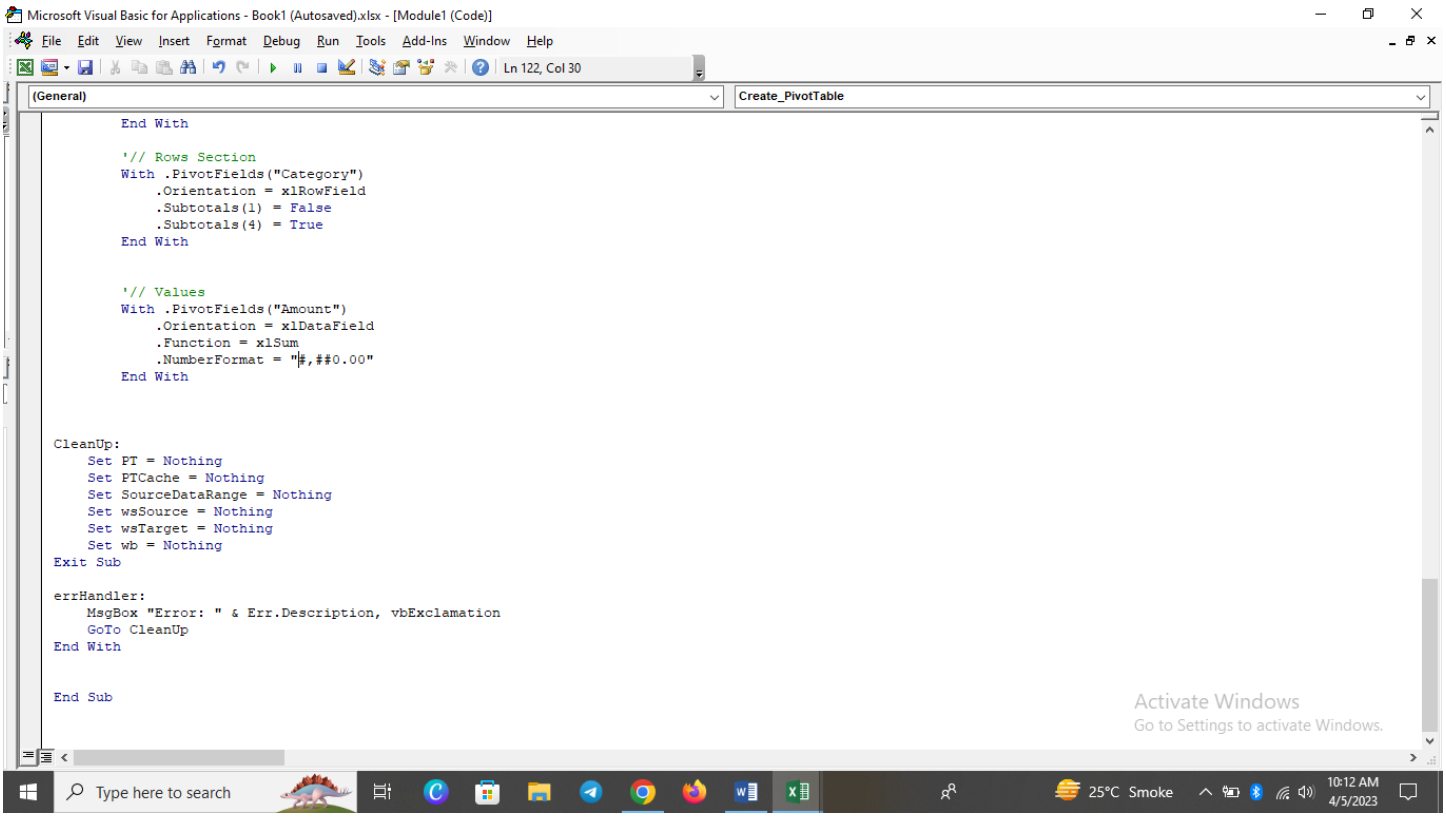
Since which data we need to use is missing.

5. Check the dataset in the link given below and create a pivot table using VBA showing the sales for the year from stationary category.


Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]
Sub Create_PivotTable()
Dim wb As Workbook
Dim wsSource As Worksheet, wsTarget As Worksheet
Dim LastRow As Long, LastColumn As Long
Dim SourceDataRange As Range
Dim PTCache As PivotCache
Dim PT As PivotTable
'On Error GoTo errHandler
Set wb = ThisWorkbook
Set wsTarget = wb.Worksheets("Report")
wsTarget.Select
wsTarget.Cells.Clear
'// Step 1. Define my pivot table data source
Set wsSource = wb.Worksheets("Sheet3")
With wsSource
LastRow = .Cells(Rows.Count, "A").End(xlUp).Row
LastColumn = .Cells(1, Columns.Count).End(xlToLeft).Column
'// Define SourceDataRange object
Set SourceDataRange = .Range(.Cells(1, 1), .Cells(LastRow, LastColumn))
End With
'// Step 2. Create Pivot Cache
Set PTCache = wb.PivotCaches.Create(xlDatabase, SourceDataRange)
'// Step 3. Create Pivot Table
Set PT = PTCache.CreatePivotTable(wsTarget.Range("C5"), "Sales Report XYZ")
With PT
'// Show GrandTotals
.ColumnGrand = False
.RowGrand = False
.RowAxisLayout xlTabularRow
Country (All)
Sum of Amount
Footwear ₹ 194,226.00
Stationary ₹ 693,069.00
Grand Total ₹ 887,295.00
PivotTable Fields
Choose fields to add to report:
Order ID
Product
Category
Amount
Date
Country
Drag fields between areas below:
FILTERS
COLUMNS
ROWS
VALUES
Sheet14
Sheet3
Report


Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]
.TableStyle2 = "PivotStyleMedium10"
'.TableStyle2 = "PivotStyleLight10"
'==========
' Layout & Format Tab
'==========
.MergeLabels = True
.DisplayErrorString = True
.ErrorString = "Error Value"
.DisplayNullString = True
.NullString = "Empty Value"
.HasAutoFormat = False
.PreserveFormatting = True
'==========
'// Totals & Filters
'==========
.RowGrand = False
.ColumnGrand = True
.AllowMultipleFilters = False
.SortUsingCustomLists = True
'==========
'// Display
'==========
.ShowDrillIndicators = True
.DisplayContextTooltips = True
.DisplayFieldCaptions = False
.InGridDropZones = False





6. Write step by step procedure to protect your workbook using a password.

1. Select File > Info.
2. Select the Protect Workbook box and choose Encrypt with Password.

3. Enter a password in the Password box, and then select OK.
4. Confirm the password in the Reenter Password box, and then select OK.