

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?

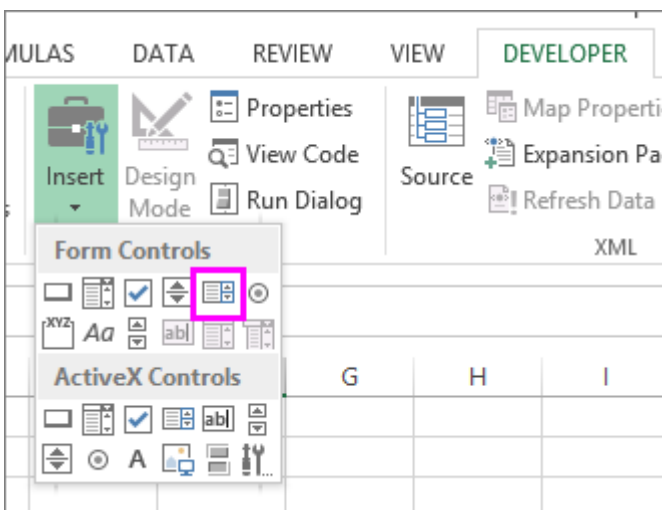
1. A UserForm object is a window or dialog box that makes up part of an application's user interface. The UserForms collection is a collection whose elements represent each loaded UserForm in an application. The UserForms collection has a Count property, an Item method, and an Add method. A UserForm 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	

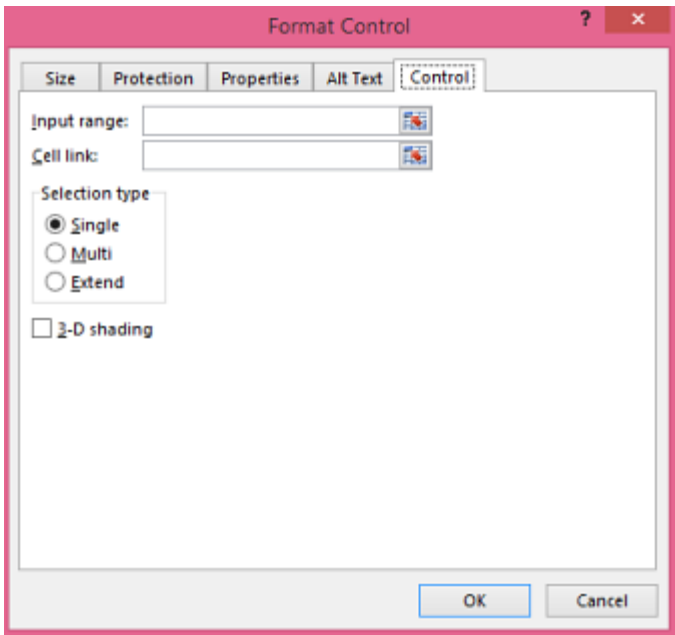
2. Click **Developer > Insert**.

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.

Book1 (Autosaved) Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]

File Home MY TAB Insert Page Layout Formulas

Clipboard Font

C5

	A	B	C	D	E
1					
2					
3			Country (All)		
4					
5			Sum of Amount		
6			Footwear ₹	194,226.00	
7			Stationary ₹	693,069.00	
8			Grand Total ₹	887,295.00	
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

Sheet14 Sheet3 Report

Ready

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

errHandler:
End Sub

PivotTable Fields

Choose fields to add to report:

Search

☐ Order ID
☐ Product
☒ Category
☒ Amount
☐ Date
☒ Country

MORE TABLES

Drag fields between areas below:

FILTERS COLUMNS

Country

ROWS VALUES

Category Sum of Amou...

Activate Windows
Go to Settings to activate Windows.

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Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]

File Edit View Insert Format Debug Run Tools Add-Ins Window Help

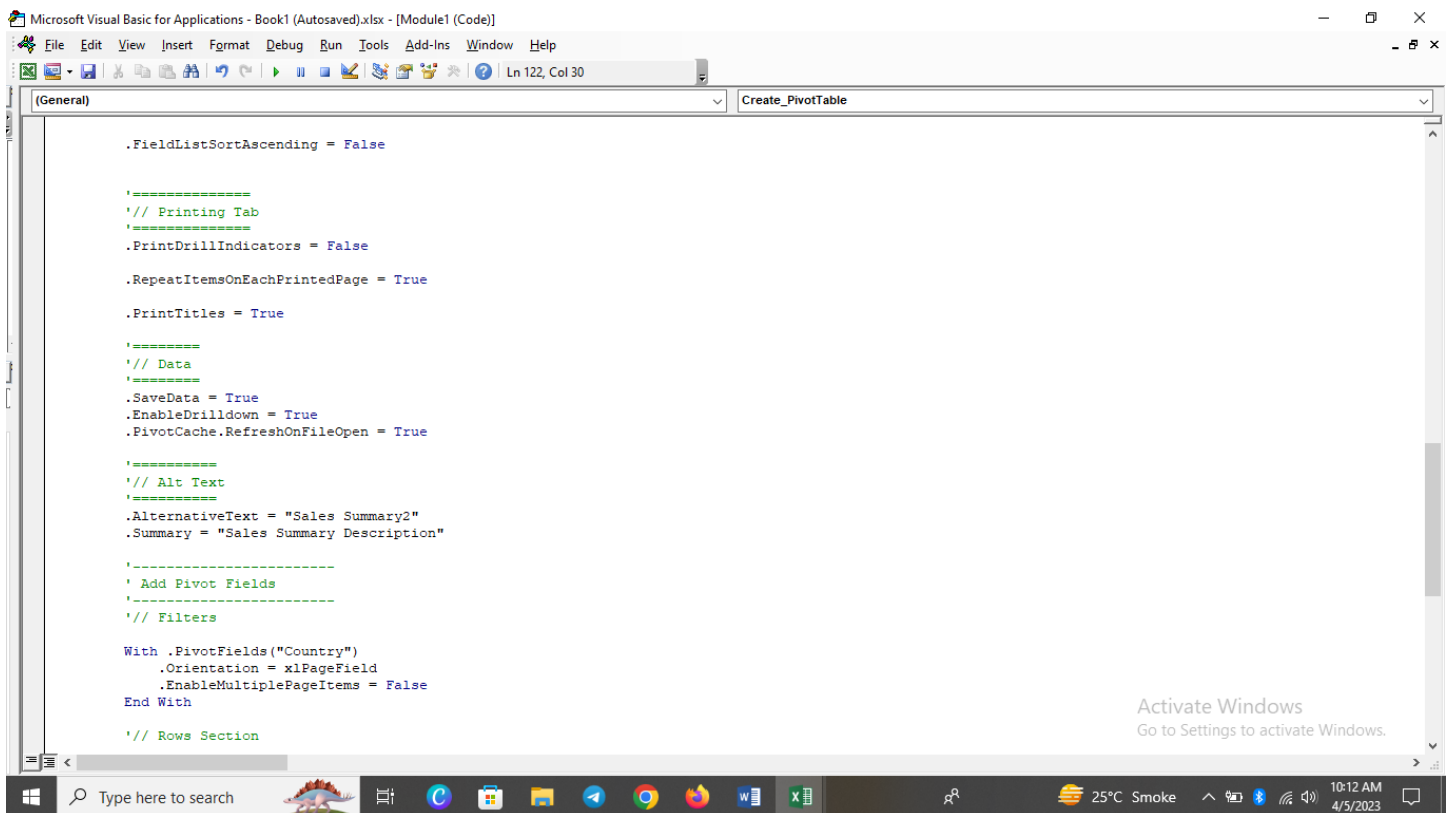
Ln 122, Col 30

(General) Create_PivotTable

```
.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
```

Activate Windows
Go to Settings to activate Windows.

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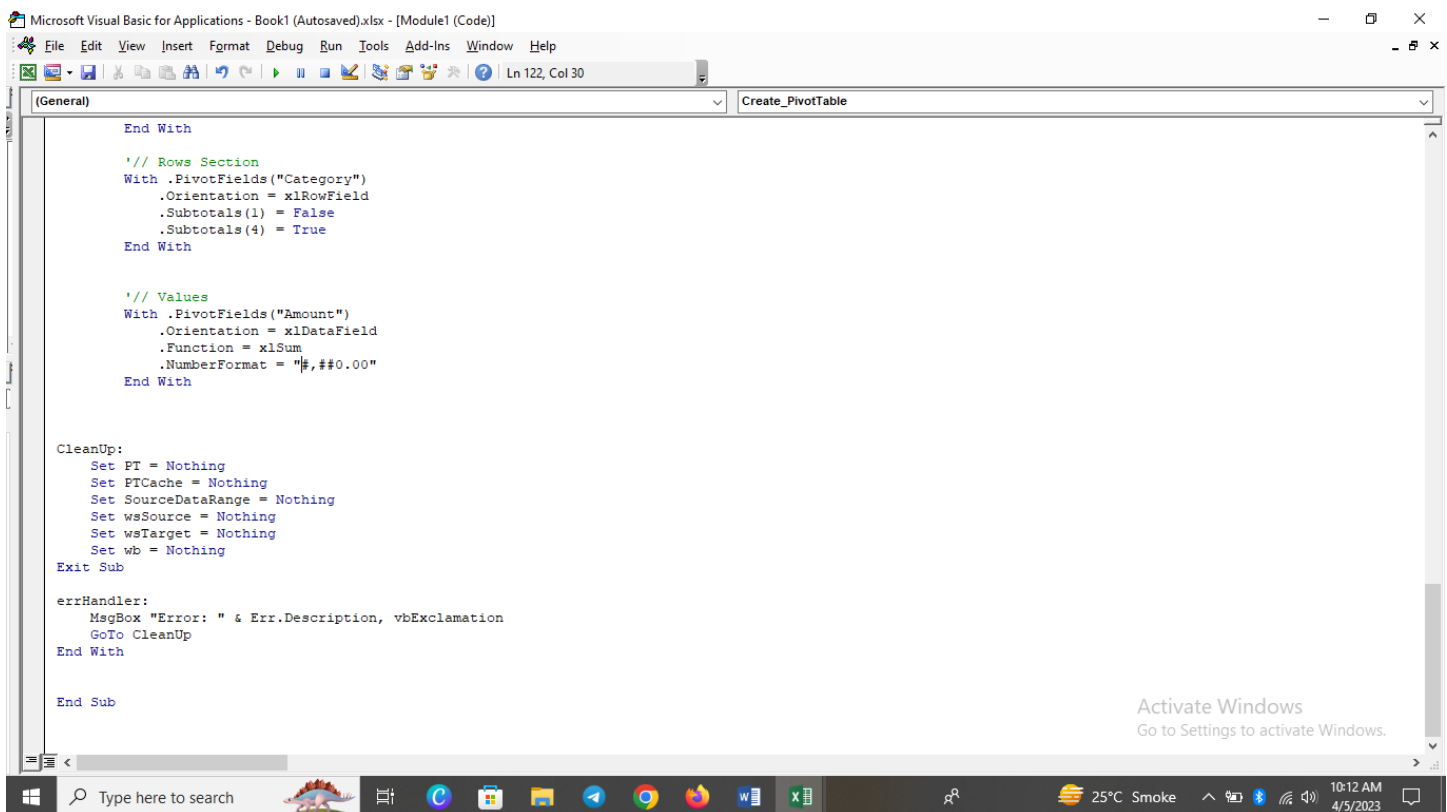


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Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]
File Edit View Insert Format Debug Run Tools Add-Ins Window Help
Ln 122, Col 30

(Field) Create_PivotTable

.FieldListSortAscending = False

'=====  
'// Printing Tab  
'=====  
.PrintDrillIndicators = False  
.RepeatItemsOnEachPrintedPage = True  
.PrintTitles = True  
  
'=====  
'// Data  
'=====  
.SaveData = True  
.EnableDrilldown = True  
.PivotCache.RefreshOnFileOpen = True  
  
'=====  
'// Alt Text  
'=====  
.AlternativeText = "Sales Summary2"  
.Summary = "Sales Summary Description"  
  
'-----  
' Add Pivot Fields  
'-----  
'// Filters  
  
With .PivotFields("Country")  
.Orientation = xlPageField  
.EnableMultiplePageItems = False  
End With  
  
'// Rows Section
```



```
Microsoft Visual Basic for Applications - Book1 (Autosaved).xlsx - [Module1 (Code)]
File Edit View Insert Format Debug Run Tools Add-Ins Window Help
Ln 122, Col 30

(Field) Create_PivotTable

End With  
  
'// Rows Section  
With .PivotFields("Category")  
.Orientation = xlRowField  
.Subtotals(1) = False  
.Subtotals(4) = True  
End With  
  
'// Values  
With .PivotFields("Amount")  
.Orientation = xlDataField  
.Function = xlSum  
.NumberFormat = "#,##0.00"  
End With  
  
Cleanup:  
Set PT = Nothing  
Set PTCache = Nothing  
Set SourceDataRange = Nothing  
Set wsSource = Nothing  
Set wsTarget = Nothing  
Set wb = Nothing  
Exit Sub  
  
errHandler:  
MsgBox "Error: " & Err.Description, vbExclamation  
GoTo Cleanup  
End With  
  
End Sub
```

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.