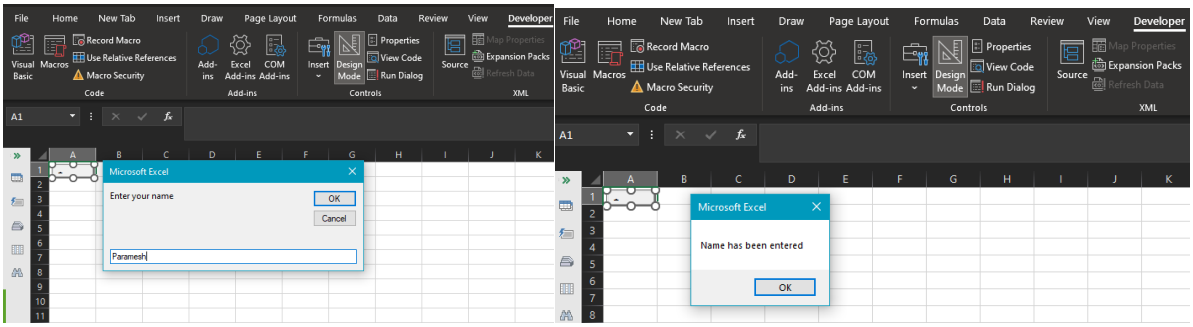
Excel Assignment - 21

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.

```
Private Sub CommandButton1_Click()
a = InputBox("Enter your name")
MsgBox ("Name has been entered")
End Sub
```



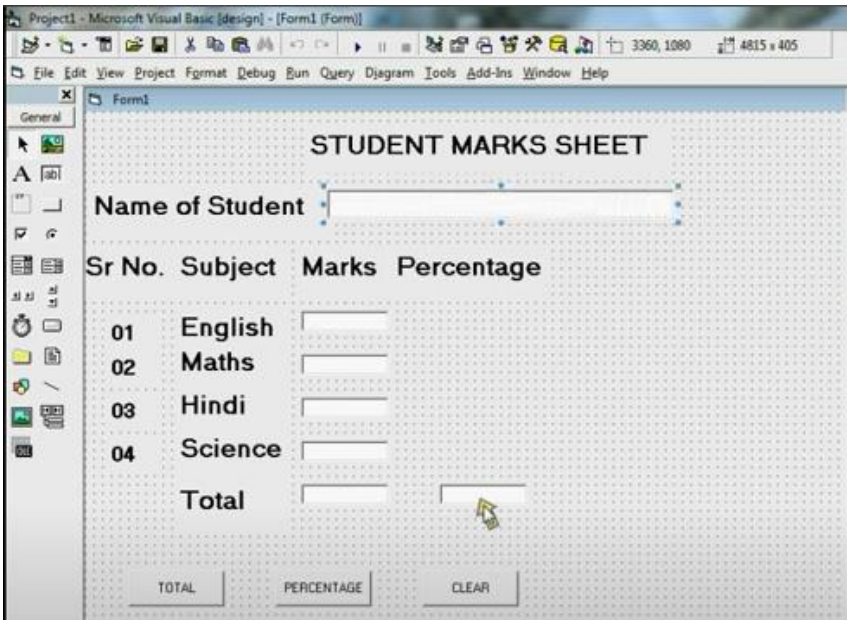
2. What are Userforms? Why are they used? How to fill a list box using for loop.

A User Form is a custom-built dialog box and used for easier data entry, Navigate to VBA Window by pressing Alt+F11 and Navigate to "Insert" Menu and select "User Form".

```
For j as integer = 1 to 10
lstprint.Items.Add(j)
Next
```

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

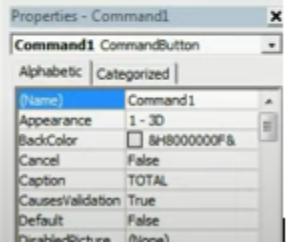
An array is a data structure consisting of a collection of elements, An array is stored such that the position of each element can be computed from its index.




```
Private Sub Commond1_Click()
Text5.Text = val(Text1.Text) + val(Text2.Text) + val(Text3.Text) + val(Text4.Text)
End Sub

Private Sub Commond2()
Text6.text = Text5.Text / 4
End Sub

Private Sub Commond3_Click()
Text1.Text = " "
Text2.Text = " "
Text3.Text = " "
Text4.Text = " "
Text5.Text = " "
Text6.Text = " "
Text7.Text = " "
End Sub
```



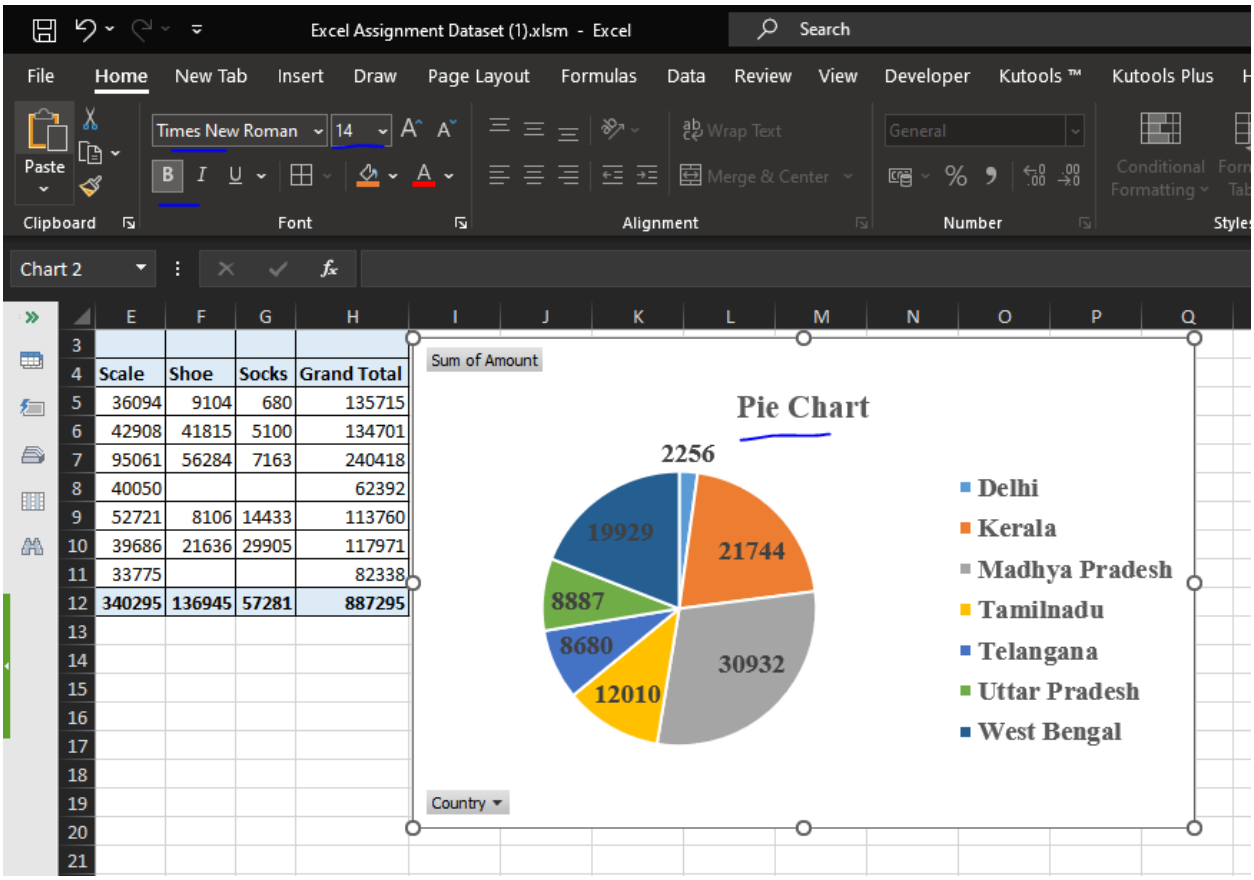
4. Use the following data to create a pie chart using VBA code. Use Font - 'Times new Roman', Size -14, Bold, Title - Piechart' and you are per to use colours as per your taste.

```
Sub piechart()

' piechart Macro

   ActiveSheet.Shapes.AddChart2(251, xlPie).Select
   ActiveChart.SetSourceData Source:=Range("Sheet2!$A$3:$H$12")

End Sub
```



Scale	Shoe	Socks	Grand Total
36094	9104	680	135715
42908	41815	5100	134701
95061	56284	7163	240418
40050			62392
52721	8106	14433	113760
39686	21636	29905	117971
33775			82338
340295	**136945**	**57281**	**887295**

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.

https://docs.google.com/spreadsheets/d/1IRSEnmgz8Ro276-GslknRNk0zlrB5CZH1YrnT71kqFM/edit?usp=sharing

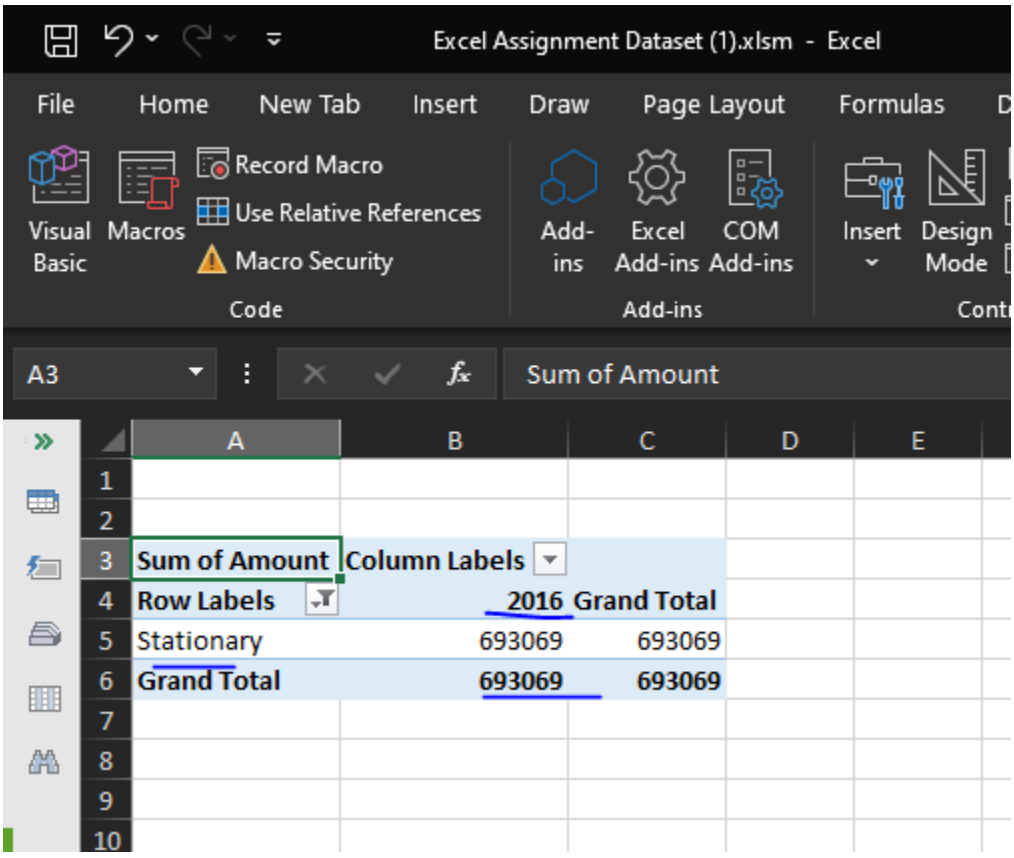
```
Sub Macro3()
' Macro3 Macro

    Range("G1").Select
    ActiveCell.FormulaR1C1 = "Year"
    Range("G2").Select
    ActiveCell.FormulaR1C1 = "=YEAR(RC[-2])"
    Range("G2").Select
    Selection.AutoFill Destination:=Range("G2:G187")
    Range("G2:G187").Select
    Range("A1:G3").Select
    Range(Selection, Selection.End(xlDown)).Select
    Application.CutCopyMode = False
    Sheets.Add
    ActiveWorkbook.PivotCaches.Create(SourceType:=xlDatabase, SourceData:= _
        "Sheet1!R1C1:R187C7", Version:=8).CreatePivotTable TableDestination:= _
        "Sheet4!R3C1", TableName:="PivotTable3", DefaultVersion:=8
    Sheets("Sheet4").Select
    Cells(3, 1).Select

    With ActiveSheet.PivotTables("PivotTable3").PivotCache
        .RefreshOnFileOpen = False
        .MissingItemsLimit = xlMissingItemsDefault
    End With
    ActiveSheet.PivotTables("PivotTable3").RepeatAllLabels xlRepeatLabels
    With ActiveSheet.PivotTables("PivotTable3").PivotFields("Category")
        .Orientation = xlRowField
        .Position = 1
    End With
```

```
    With ActiveSheet.PivotTables("PivotTable3").PivotFields("Year")
        .Orientation = xlColumnField
        .Position = 1
    End With
    ActiveSheet.PivotTables("PivotTable3").AddDataField ActiveSheet.PivotTables( _
        "PivotTable3").PivotFields("Amount"), "Sum of Amount", xlSum
    With ActiveSheet.PivotTables("PivotTable3").PivotFields("Category")
        .PivotItems("Footwear").Visible = False
    End With

End Sub
```



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

Select the file and click on Info

Select Protect workbook and choose encrypt with Password.

Enter the password and again re enter to confirm and click on OK.

Your file is now protected with a Password.