

## **ASSIGNMENT-21 SOLUTIONS**

1. Desired VBA Code is:

```
Sub vba_input_box()  
Range("A1").Select  
ActiveCell = InputBox("What is your name?", "Enter Name")  
MsgBox "Your name has ben entered.", vbOKOnly  
End Sub
```

2. A User Form is a custom-built dialog box that makes a user data entry more controllable and easier to use for the user. It allows you to build a professional looking user interface to communicate with the users of your VBA application. It also allows you to totally control the user in what they are doing to your workbook.

List box can be filled using for loop in following way:

```
Sub vba_list_box()  
For i = 1 To 10  
    ListBox1.Items.Add (i.ToString)  
End Sub
```

3. Sometimes, developers are in a position to hold more than one value in a single variable at a time. When a series of values are stored in a single variable, then it is known as an array variable.

```
Private Sub Student_Marks()  
    Dim arr(3,2) as Variant      ' Which has 3 rows and 4 columns  
    arr(0,0) = "Anand"  
    arr(0,1) = "92"  
    arr(1,0) = "Krish"  
    arr(1,1) = "96"  
    arr(2,0) = "Sudhanshu"  
    arr(2,1) = "95"  
End Sub
```

4. Desired code is:

```
Charts.Add  
ActiveChart.ChartType = xlPie  
ActiveChart.SetSourceData Source:=Sheets("Sheet1").Range("A1:A4"), PlotBy:= _  
    xlColumns  
ActiveChart.Location Where:=xlLocationAsObject, Name:="PieChart"  
ActiveChart.HasTitle = False
```

5. Desired VBA code is:

```
Sub Macro1()  
    Range("H1").Select  
    Sheets.Add  
    ActiveWorkbook.PivotCaches.Create(SourceType:=xlDatabase, SourceData:= _  
        "Sheet1!R1C1:R187C6", Version:=xlPivotTableVersion14).CreatePivotTable _  
        TableDestination:="Sheet2!R3C1", TableName:="PivotTable1", DefaultVersion _  
        :=xlPivotTableVersion14
```

```

Sheets("Sheet2").Select
Cells(3, 1).Select
With ActiveSheet.PivotTables("PivotTable1").PivotFields("Category")
    .Orientation = xlRowField
    .Position = 1
End With
ActiveSheet.PivotTables("PivotTable1").AddDataField ActiveSheet.PivotTables( _
    "PivotTable1").PivotFields("Amount"), "Sum of Amount", xlSum
With ActiveSheet.PivotTables("PivotTable1").PivotFields("Date")
    .Orientation = xlRowField
    .Position = 2
End With
With ActiveSheet.PivotTables("PivotTable1").PivotFields("Category")
    .Orientation = xlColumnField
    .Position = 1
End With
With ActiveSheet.PivotTables("PivotTable1").PivotFields("Category")
    .PivotItems("Footwear").Visible = False
End With
End Sub

```

6. Step by step procedure to protect workbook using a password:
  - i) Select File > Info.
  - ii) Select the Protect Workbook box and choose Encrypt with Password.
  - iii) Enter a password in the Password box, and then select OK.
  - iv) Confirm the password in the Reenter Password box, and then select OK.