Excel Assignment – 21

Que.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.

Ans. – 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
```

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

Ans. – 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
```

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

Ans. – 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

Que.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.

Ans. – 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

Que.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

Ans. – 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

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

Ans. – 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 Re-enter Password box, and then select OK