**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.**

**Ans:** Sub Msg

Dim Name as String

Name = InputBox(“Enter your name”)

MsgBox Name+ “has been entered”

End Sub

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

**Ans:** The ListBox is used to display a list of items to the user so that the user can then select one or more. A list box can be filled by using cells in the worksheet as source - the list's Row source - or by adding items one by one with the Add Item method.

ListBox1.Items. Add(i)

For (int i = 1, i < 10, i++)

ListBox1.items.Add

1. **What is an array?**

**Ans:** An array is a single variable with many compartments to store values.

1. **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: Sub Charts

Dim MyChart As Chart

Set MyChart = Charts.Add

With MyChart

SetSourceData Sheets("Sheet1").Range("A1:B7")

ChartType = xlPie

ChartTitle.Text = "PieChart"

Range(“A1:B7”).Font.Bold = True

Range(“A1:B7”).Font.Name = “Times new Roman”

Range(“A1:B7”).Font.Colour = vbBlue

Range(“A1:B7”).Font.Size = 14

End With

End Sub

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

**Ans:** Dim Stationary

Dim DSheet As Worksheet

Dim PCache As PivotCache

Dim PTable As PivotTable

Dim PRange As Range

Dim LastRow As Long

Dim LastCol As Long

On Error Resume Next

Application.DisplayAlerts = False

Worksheets("PivotTable").Delete

Sheets.Add Before:=ActiveSheet

ActiveSheet.Name = "PivotTable"

Application.DisplayAlerts = True

Set PSheet = Worksheets("PivotTable")

Set DSheet = Worksheets("Data")

LastRow = DSheet.Cells(Rows.Count, 1).End(xlUp).Row

LastCol = DSheet.Cells(1, Columns.Count).End(xlToLeft).Column

Set PRange = DSheet.Cells(1, 1).Resize(LastRow, LastCol)

Set PCache = ActiveWorkbook.PivotCaches.Create \_

(SourceType:=xlDatabase, SourceData:=PRange). \_

CreatePivotTable(TableDestination:=PSheet.Cells(2, 2), \_

TableName:="StationaryPivotTable")

Set PTable = PCache.CreatePivotTable \_

(TableDestination:=PSheet.Cells(1, 1), TableName:="StationaryPivotTable")

With ActiveSheet.PivotTables("StationaryPivotTable").PivotFields("Year")

.Orientation = xlRowField

.Position = 1

End With

'Insert Column Fields

With ActiveSheet.PivotTables("StationaryPivotTable").PivotFields("Amount")

.Orientation = xlColumnField

.Position = 1

End With

With ActiveSheet.PivotTables("StationaryPivotTable").PivotFields ("Amount")

.Orientation = xlDataField

.Function = xlSum

.NumberFormat = "#,##0"

.Name = "Revenue "

End With

ActiveSheet.PivotTables("StationaryPivotTable").ShowTableStyleRowStripes = True

ActiveSheet.PivotTables("SalesPivotTable").TableStyle2 = "PivotStyleMedium9"

End Sub

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

**Ans:** Step by step procedure to protect your workbook using a password are as follows:

1. File > Info > Select Protect workbook box -> Select Ok -> Confirm the password and then Reenter -> Ok