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 EnterName()

Dim userName As String

userName = InputBox("Enter your name:")

Range("A1").Value = userName

MsgBox "The name has been entered."

End Sub

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

**Ans**: UserForms are dialog boxes that allow you to create custom forms and collect user input.

They are used for creating interactive interfaces. To fill a ListBox using a For Loop, you'd typically loop through your data and add items to the ListBox.

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

**Ans**: An array is a collection of variables of the same data type.

Sub EnterStudentMarks()

Dim studentMarks(1 To 3, 1 To 2) As Variant

studentMarks(1, 1) = "Student1"

studentMarks(1, 2) = 85

' Repeat for other students...

End Sub

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 CreatePieChart()

Dim myChart As ChartObject

Set myChart = ActiveSheet.ChartObjects.Add(Left:=100, Width:=375, Top:=75, Height:=225)

myChart.Chart.SetSourceData Source:=Range("B2:C7")

myChart.Chart.ChartTitle.Text = "Piechart"

myChart.Chart.ChartTitle.Font.Name = "Times New Roman"

myChart.Chart.ChartTitle.Font.Size = 14

myChart.Chart.ChartTitle.Font.Bold = True

' Customize colors as needed

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

**Ans**:

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

Ans:

a. Open your workbook.

b. Press Alt + F11 to open the VBA Editor.

c. In the VBA Editor, go to Insert > Module to insert a new module.

d. Use the following code:

Sub ProtectWorkbookWithPassword()

ActiveWorkbook.Protect Password:="YourPassword"

End Sub

e. Close the VBA Editor.

f. Press Alt + F8, select ProtectWorkbookWithPassword, and click Run.