**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 EnterNameAndDisplayMessage()

Dim userName As String

userName = InputBox("Enter your name:")

If userName <> "" Then

Range("A1").Value = userName

MsgBox "Name '" & userName & "' has been entered.", vbInformation

End If

End Sub

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

**Ans-** Userforms in VBA are custom dialog boxes used to create interactive interfaces for Excel applications. They allow users to input data, make selections, and interact with the spreadsheet.

They are used for:

Data Input: Collect user input in a structured way.

Custom Interfaces: Create user-friendly interfaces.

Automation: Control macros and functions.

To fill a list box using a for loop:

code

**For i = 1 To 10**

**ListBox1.AddItem "Item " & i**

**Next i**

**This code adds 10 items to ListBox1 using a for loop.**

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

**Ans-** An array in VBA is a collection of variables that can hold multiple values of the same data type. It allows you to store and manipulate data efficiently.

**Sub EnterStudentsAndMarks()**

**Dim Students(1 To 5) As String**

**Dim Marks(1 To 5) As Double**

**Dim i As Integer**

**' Enter student names and marks into arrays**

**Students(1) = "Student1"**

**Marks(1) = 85.5**

**Students(2) = "Student2"**

**Marks(2) = 92.0**

**Students(3) = "Student3"**

**Marks(3) = 78.5**

**Students(4) = "Student4"**

**Marks(4) = 96.5**

**Students(5) = "Student5"**

**Marks(5) = 88.0**

**' Print the entered data**

**For i = 1 To 5**

**Debug.Print "Student: " & Students(i) & ", Marks: " & Marks(i)**

**Next i**

**End Sub**

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

Ans- To protect an Excel workbook using a password, follow these step-by-step instructions:

1. Open Your Excel Workbook:
2. Launch Microsoft Excel and open the workbook you want to protect with a password.
3. Go to File:
4. Click on the "File" tab in the top-left corner of the Excel window to access the "File" menu.
5. Choose Info:
6. In the "File" menu, select the "Info" option from the list on the left. This will display workbook properties.
7. Click on Protect Workbook:
8. Under "Workbook Properties," locate and click on the "Protect Workbook" drop-down arrow. It may also be labeled as "Protect Workbook with Password."
9. Enter Password:
10. A dialog box titled "Protect Structure and Windows" or "Protect Workbook" will appear, prompting you to enter a password. Enter the password you want to use to protect the workbook. Make sure it's a password you'll remember or store it securely because there's no way to recover a lost password.
11. Confirm Password:
12. Re-enter the same password in the "Reenter password to proceed" field to confirm it.
13. Save the Workbook:
14. Click the "OK" button to confirm the password. You will be prompted to save the workbook.
15. Save the Workbook Again:
16. Save the workbook to apply the password protection. Go to "File" -> "Save" or press Ctrl + S.
17. Close and Reopen Workbook:
18. Close the workbook and then reopen it to ensure that the password protection is in effect.
19. Enter Password to Open:

When you try to reopen the workbook, you will be prompted to enter the password you set earlier. Enter the correct password to access the workbook. Without the password, the workbook will remain locked.

Your Excel workbook is now protected with a password. Be sure to remember the password you set, as it cannot be recovered if forgotten.