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.

```
Sub EnterName()
    Dim name As String
    name = InputBox("Please enter your name.")
    Range("A1").Value = name
    MsgBox "Your name, " & name & ", has been entered in cell A1."
End Sub
```

To run this code, simply open up the Visual Basic Editor in Excel (by pressing Alt +F11), create a new module, paste in the code, and then run the EnterName macro.

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

Userforms are graphical interfaces in VBA that allow users to input data and interact with a program.
They can contain various controls, such as text boxes, command buttons, checkboxes, and list boxes, which can be customized and programmed to perform specific actions.

Userforms are used in VBA to create custom dialog boxes, data entry forms, and other interactive features that can improve the user experience of a program.
They can be used to gather information from the user, display data, or provide options for the user to select.

To fill a list box using a For loop in VBA, you can follow these steps:
Add a list box control to your userform by selecting it from the Toolbox in the Visual Basic Editor.
Double-click on the list box control to open its code module.
In the code module, add the following code:
vbnet
Copy code

```
Private Sub UserForm_Initialize()
    For i = 1 To 10
        ListBox1.AddItem "Item " & i
    Next i
End Sub
```

In this code, we're using the UserForm_Initialize event to populate the list box with 10 items using a For loop.
The AddItem method is used to add each item to the list box, and we're using a string concatenation to create the label for each item.

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

An array is a collection of related data values that share a common name and data type.
The values in an array are stored in contiguous memory locations, which can make it more efficient to work with large amounts of data.

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.

Category	Value
A	20
B	30
C	10
D	40

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

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

Here are the step-by-step instructions to protect your workbook using a password in Microsoft Excel:

Open the Excel workbook that you want to protect.

Click on the "File" tab in the Excel ribbon menu.

Select the "Info" option from the left-hand menu.

Click on the "Protect Workbook" option in the "Permissions" section.

Select "Encrypt with Password" from the drop-down menu.

In the "Encrypt Document" dialog box, enter a strong password that you will remember, and then click "OK".

Re-enter the password in the confirmation dialog box, and then click "OK".

Save the workbook by clicking on the "Save" button in the upper left corner of the Excel window, or by using the "Ctrl + S" keyboard shortcut.

Close the workbook and reopen it to test the password protection. You should be prompted to enter the password before you can view or edit the workbook.

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