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Advanced 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.

Arati Dash

```vba
Sub ip_name()

'variable to store the count of rows.
Dim iRow As Long

'get the count cells that are filled
iRow = WorksheetFunction.CountA(Range("A:A"))

'get to the next blank cell in column A
Cells(iRow + 1, 1).Select

'enter the value from the input box into the active cell
ActiveCell = InputBox("What is your name?", "Enter Name")

MsgBox "Name has been entered "

End Sub
```
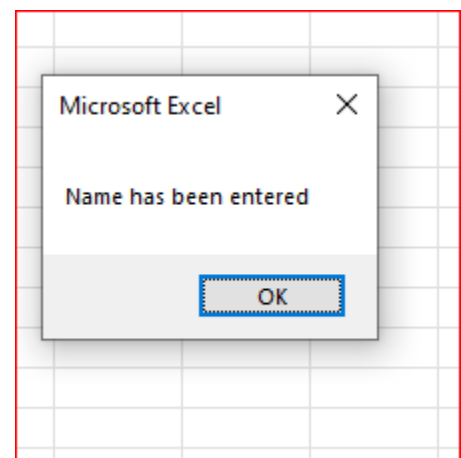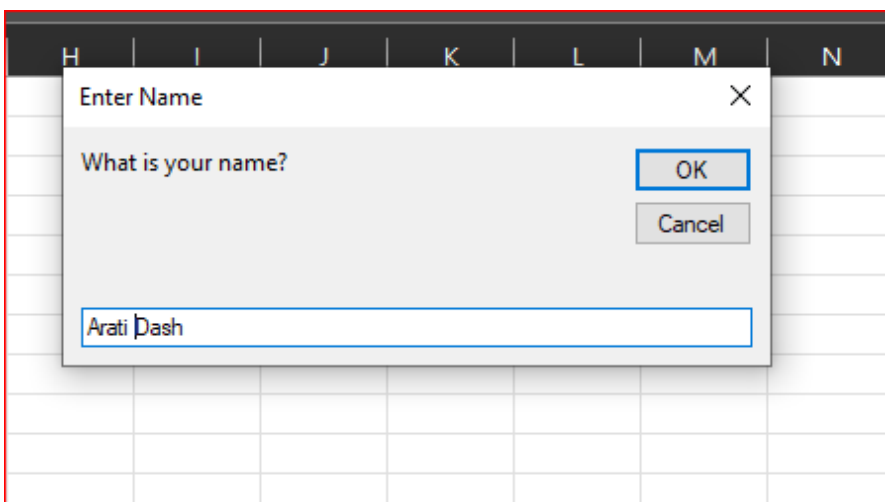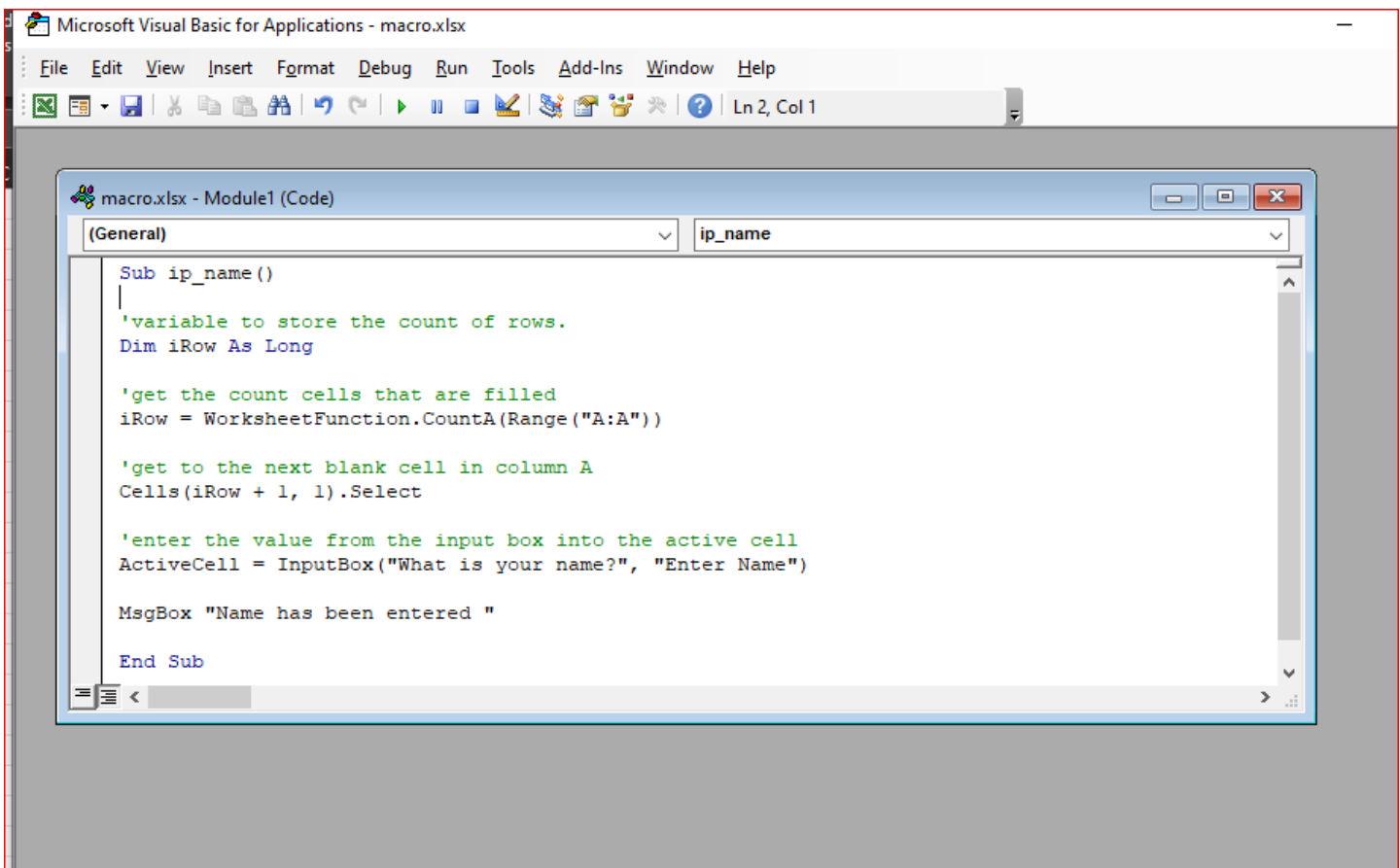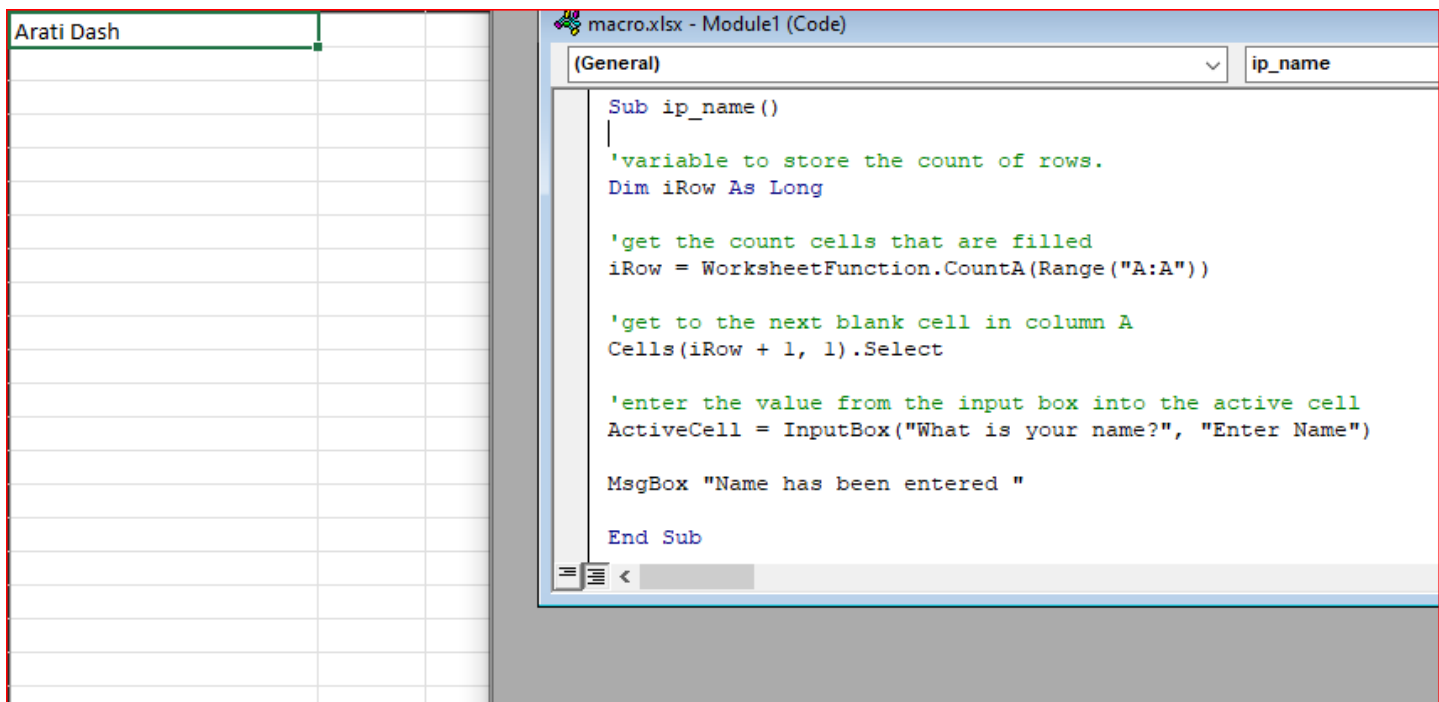
2. What are User forms? Why are they used? How to fill a list box using for loop.

➢ A User Form object is a window or dialog box that makes up part of an application's user interface. The User Forms collection is a collection whose elements represent each loaded User Form in an application. The User Forms collection has a Count property, an Item method, and an Add method.
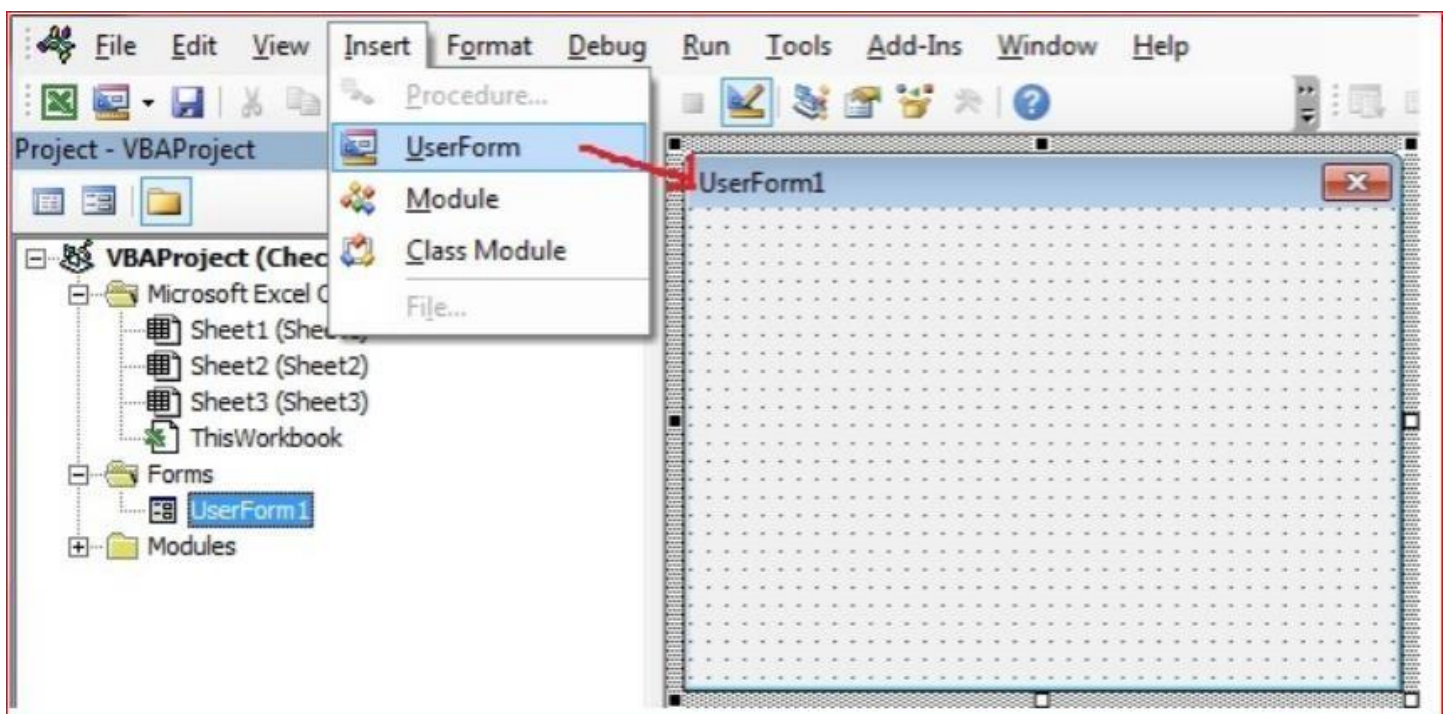
- List Box is one of the User Form controls. We can select and drag List Box on the User Form. This control is used to display a list of items to a list. This is used on the User Form.

- Drag Listbox_Control on the User form from the Toolbox. Double Click on the User Form and select the User form event.
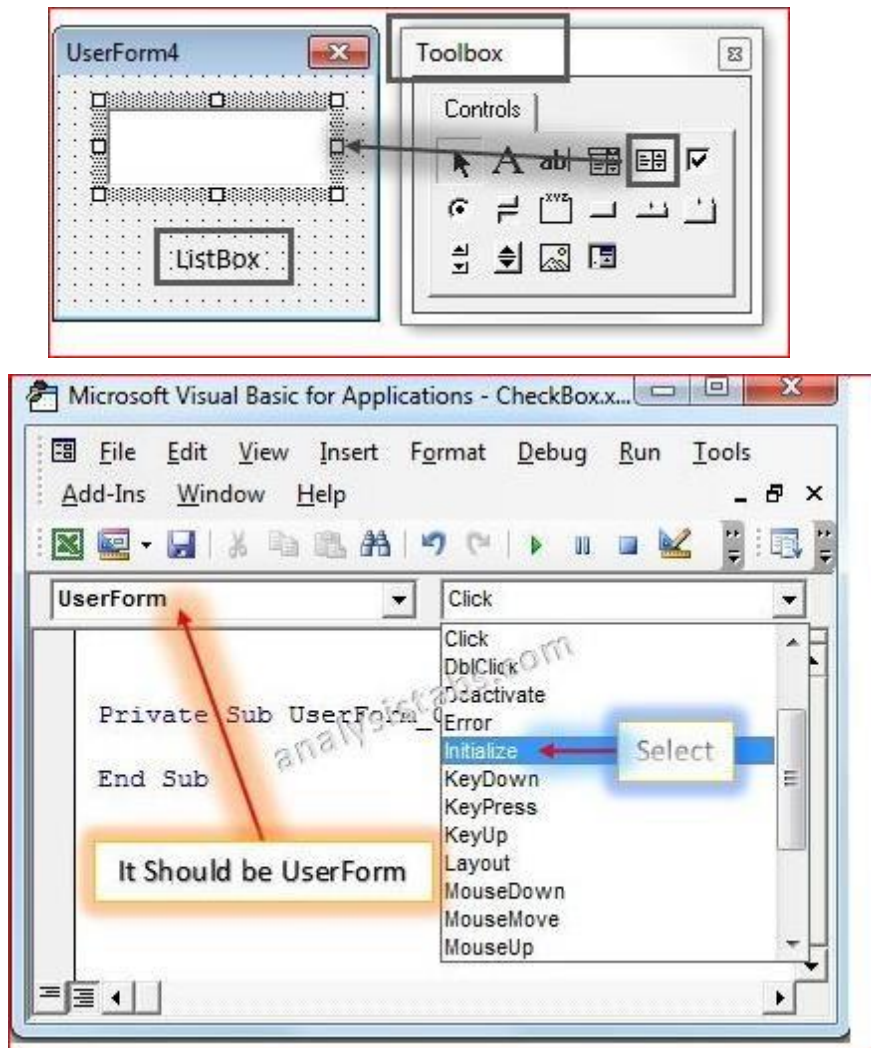
3. What is an array? Write a VBA code to enter students and their marks from the below table.

- An array is a single variable with many compartments to store values, while a typical variable has only one storage compartment in which it can store only one value. Refer to the array when wants to refer to all the values it holds or can refer to its individual elements.

Microsoft Visual Basic for Applications - macro.xlsx

File   Edit   View   Insert   Format   Debug   Run   Tools   Add-Ins   Window   Help

Ln 41, Col 25

macro.xlsx - Module1 (Code)

(General)   std_mrk

```vba
Public Sub std_mrk()

    ' Get the worksheet called "Marks"
    Dim sh As Worksheet
    Set sh = ThisWorkbook.Worksheets("Marks")

    ' Declare variable for each student
    Dim Student1 As Long
    Dim Student2 As Long
    Dim Student3 As Long
    Dim Student4 As Long
    Dim Student5 As Long

    ' Read student marks from cell
    Student1 = sh.Range("C" & 3).Value
    Student2 = sh.Range("C" & 4).Value
    Student3 = sh.Range("C" & 5).Value
    Student4 = sh.Range("C" & 6).Value
    Student5 = sh.Range("C" & 7).Value

' Print student marks
    Debug.Print "Students Marks"
    Debug.Print Student1
    Debug.Print Student2
    Debug.Print Student3
    Debug.Print Student4
    Debug.Print Student5

End Sub
```

macro.xlsx - Module1 (Code)

(General)

```vba
Public Sub std_mrk()

    ' Get the worksheet called "Marks"
    Dim sh As Worksheet
    Set sh = ThisWorkbook.Worksheets("Marks")

    ' Declare variable for each student
```

Immediate

```
Students Marks
 89
 67
 77
 42
 70
Students Marks
 89
 67
 77
 42
 70
Students Marks
 89 |
 67
 77
 42
 70
Students Marks
 89
 67
 77
 42
 70
```

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

➢ To prevent others from accessing data in your Excel files, protect the Excel file with a password.

- Select File → Info.

- Select the Protect Workbook box and choose Encrypt with Password.

- Enter a password in the Password box, and then select OK.

- Confirm the password in the Re-enter Password box, and then select OK.