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VBA INPUTBOX FUNCTION - STUDY NOTES

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1. WHAT IS AN INPUTBOX?

- Definition: A dialog box that prompts the user to enter text or a value.
- Key Characteristic: Whatever the user types is returned as a STRING.
- Usage: Use this when you need the user to provide specific data (like a name, date, or number) rather than just clicking a button.

2. SYNTAX

Format: InputBox(Prompt, [Title], [Default], [XPos], [YPos])

- Prompt (Required): The message/question for the user.
- Title (Optional): The text in the top title bar of the box.
- Default (Optional): A pre-filled value already in the text box.
- XPos/YPos (Optional): Coordinates to position the box on screen.

3. CODE EXAMPLES

Example 1: Simple InputBox
(Asking for a name and greeting the user)

```
Sub SimpleInputBox()  
    Dim userName As String  
    userName = InputBox("Enter your name:")  
    MsgBox "Hello, " & userName & "!"  
End Sub
```

...

Example 2: InputBox with Title and Default Value
(Pre-filling "Pune" as the default city)

```
Sub InputBoxWithDefault()  
    Dim city As String  
    city = InputBox("Enter your city:", "City Information", "Pune")  
    MsgBox "You live in: " & city  
End Sub
```

...

Example 3: Working with Numbers
(Using Val()) to convert the string input into a number for math)

```
Sub InputBoxNumbers()  
    Dim num As Integer  
    ' InputBox returns text, Val() converts it to a number  
    num = Val(InputBox("Enter a number:", "Number Input"))  
    MsgBox "You entered " & num & " and its square is " & num * num  
End Sub
```

...

Example 4: Handling "Cancel" or Empty Input
(Checking if the user left the box blank or hit Cancel)

```
Sub InputBoxCancel()  
    Dim age As String
```

```

age = InputBox("Enter your age:", "Age Check")

If age = "" Then
    MsgBox "You cancelled the input!", vbExclamation
Else
    MsgBox "Your age is " & age
End If
End Sub

```

...

Example 5: Saving Input to Excel Cells
(Writing the user's input directly into the worksheet)

```

Sub InputBoxToCell()
    Dim empName As String
    empName = InputBox("Enter Employee Name:", "Employee Data")

    If empName <> "" Then
        Range("A1").Value = "Employee Name"
        Range("B1").Value = empName
    End If
End Sub

```

4. KEY DIFFERENCES: MSGBOX VS. INPUTBOX

Feature	MsgBox	InputBox
Purpose	Display info or ask for choice	Get data/text input
Response	Returns a Button ID (Yes/No)	Returns a String
Input Type	Click a Button	Type into a Box

```

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End of Notes
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```