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# VBA macros Interview Questions and Answers

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## VBA macros Interview Questions and Answers

These days, one of the most popular job posts is data analysis. By executing the macro, VBA is an excellent tool for automating routine, repetitive chores on a daily, weekly, or monthly basis. Therefore, you might need to go through the in-person interview phase to apply for the position of VBA developer or business data analyst. The most frequently asked Basic and Advanced VBA Interview Questions and Answers will be covered in this course, which will be helpful for both novice and experienced VBA developers. Explore the VBA Macros course syllabus.

### 1. Explain macros. What benefit does employing a macro have?

A collection of instructions (also known as code) kept in a VBA editor's Visual Basic module is called a VBA macro. A module contains the code for the VBA macros. Go to the VBA editor and select Insert -> Module to add a module.

Excel users can automate routine repetitive operations on a daily or weekly basis by executing VBA macros. Thus, you may increase productivity, save time, and meet

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client deadlines by utilizing macros.

## 2. What is the fundamental Excel object model?

The Excel basic object model is shown below.

Click on Application -> Workbooks -> Worksheets -> Range / Chart

## 3. How can you get the VBA editor screen to open the quickest?

'Alt + F11' is the keyboard shortcut that opens the Visual Basic editor window with the quickest and easiest method.

**Related Link:** [Advanced Excel Course Syllabus](#)

## 4. What is meant by "option explicit" in your understanding?

When utilizing VBA, the explicit option is utilized to mandate that variables be declared before usage. It aids in avoiding type mistakes and producing bug-free code for VBA developers.

## 5. Which kinds of fundamental modules are available in the Visual Basic Editor?

VBE's three distinct modules are offered:

**Class Module:** Default modules that are frequently used for function writing.

**UserForms:** They support the development and design of GUI programs.

**Class modules** facilitate the creation of new items, ethos, processes, and events by the user.

Describe the process of passing arguments to VBA functions.



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Two methods exist in VBA Subroutines and Functions for passing arguments:

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**ByVal:** The value assigned to an argument is supplied to the procedure when an argument is passed by value.

Furthermore, any modifications made to the argument throughout the procedure will be lost after it concludes.

**ByRef:** The actual address associated with the argument is supplied to the procedure when an argument is passed by reference. After the procedure, any modifications made to the argument will be approved.

And in VBA, ByRef is the default.

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How may a file be moved from one place to another?

The following is how you can move a file from one location to another.

```
Sub Move_File()
```

```
    Dim sFileName As String
```

```
    Dim dFileName As String
```

```
    sFileName = "D:Test.xlsx" 'Source File Location Name
```

```
    dFileName = "E:Test.xlsx" 'Destination File Location  
Name
```

```
    Name sFileName As sFileName
```

```
End Sub
```

## 6. Why are macros necessary to use?

A macro is a collection of instructions kept in a Visual Basic module within a VBA editor. By executing macros,

it assists in automating routine, repetitive work on a daily, weekly, or monthly basis. You can boost productivity, deliver products to clients on schedule, and save a ton of time by using macros.

## **7. How can one cease capturing macros?**

Please refer to the instructions below to cease the workbook's macro recording.

Step 1: From the Excel window's main ribbon, select the Developer tab.

Step 2: To end the recording macro, click the command button labeled "Stop Recording."

## **8. How can macros be removed from the workbook?**

Please refer to the instructions below to remove macros from the workbook.

Step 1: From the Excel window's main ribbon, select the Developer tab.

Step 2: To view the available macros in the active workbook, click the Macros command button.

Step 3: The Macro dialog box will show up on the screen after you click the Macros command button.

Step 4: Click the "Delete" command button after selecting the name of the macro that you wish to delete.

Step 5: The dialog box for confirmation will now appear. To remove the macro, click OK.

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## **9. How can you set up Excel VBA macros to run automatically when I open a workbook?**

One of the most often requested questions and answers during Excel VBA interviews is this one. When a workbook is opened in Excel VBA, you may utilize the Workbook\_Open() Event to have macros run automatically.

Please follow these procedures to obtain the Workbook\_Open() Event in Excel.

1. Access the VBA Editor.
2. From the Project Explorer, select "ThisWorkbook."
3. Two drop-down lists are now visible on the right side.
4. From the first drop-down menu, select "Workbook," and from the second drop-down menu, select "Open."
5. The code that follows is now visible.

```
Private Sub Workbook_Open()
```

```
'Your Statements.....
```

```
End Sub
```

6. To execute a macro, insert the code in between the lines above.
7. Close and save the worksheet.
8. To test the macro, reopen the workbook.

```
Private Sub Workbook_Open()
```

```
MsgBox "Workbook has Opened Successfully.",  
vbInformation
```

```
End Sub
```

In the example above, the macro will launch automatically as soon as the worksheet is opened. A notification similar to "Workbook has Opened Successfully" will now appear.

Alternatively, we may construct a code module procedure called Auto\_Open() that will run when the macro file is opened.

**Useful Source:** Beginners Guide to Understanding the Required Skills for Learning RPA

## **10. How do you add a UserForm, module, or class to a VBA project?**

To add a UserForm, module, or class module to a VBA project, please follow these procedures.

### **Add UserForm:**

Step 1: Open the VBA Editor window and select the Insert menu.

Step 2: To add a UserForm to the project, click on it. In Project Explorer, you can now view the newly added UserForm. "UserForm1" will be the default UserForm name. The UserForm name can be modified by utilizing properties.

### **Add Module:**

Step 1: Open the VBA Editor window and select the Insert menu.

Step 2: To add a module to the project, click "Module." The Project Explorer now displays the newly added module. "Module1" will be the default module name. Module names can be changed by using properties.

### **Add Class Module:**

Step 1: Open the VBA Editor window and select the Insert option.

Step 2: To add a class module to the project, click on it. In the Project Explorer, the newly inserted class module is now visible. By Default The name of the class module

is "Class1." Using properties, you can modify the name of the class module.

## 11. How do you create an object variable for a workbook, worksheet, etc.?

An object variable can be created and used throughout the process. Please refer to the examples below to build an object for a worksheet, workbook, etc.

Make an object for the workbook:

```
Sub Create_Object_Workbook()
```

```
    Dim Wb As Workbook
```

```
    Set Wb = ActiveWorkbook
```

```
    MsgBox Wb.Sheets(1).Name
```

```
End Sub
```

Explanation: We generated and assigned the "Wb" object to the Active Workbook in the example above. We then used it to display the name of the first worksheet in the following statement (MsgBox Wb.Sheets(1).Name).

**Related Link:** [Cloud Computing vs Data Science](#)

## 12. Describe an array

A collection of variables with similar types is called an array. By using the array name and the index number (also known as the subscript), you can use an array to refer to a specific value.

The following is how we may declare and build an array variable for size.

```
Dim ArrayName As Datatype (IndexNumber)
```

Example: Dim aValue(2) As Integer

The array name "aValue" and the array size "2" are indicated in the above statement.

### 13. Define Data Type

Data Type: A data type indicates the sort of variable that will be used in a function or process. A data type is a set of specifications that indicate how much space a variable requires.

Since different variables take up varying amounts of memory space, we must determine how much space a variable will take up before using it.

The variable can be declared in the manner shown below.

```
Dim VariableName as Datatype
```

#### **Example:**

```
Dim iCnt as Integer
```

where Integer denotes datatype and iCnt stands for variable name.

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### 14. How do you create a new message using Outlook?

The VBA process to create a new message in Outlook is as follows.

```
Sub Create_Message()
```

```
Dim OLApp As New Outlook.Application
```

```
Dim oMessage As MailItem
```

```
Set OLApp = New Outlook.Application
```



```
Set oMessage = OLEApp.CreateItem(olMailItem)
```

```
With oMessage
```

```
.To = "Person_Name@domain.com"
```

```
.Subject = "Test Email"
```

```
.Body = "This is a test message."
```

```
.Display
```

```
End With
```

```
Set objMail = Nothing
```

```
Set objOL = Nothing
```

```
End Sub
```

## Bottom Line

We have covered VBA interview questions and answers in great detail in this article. Join us in our **VBA Macros training in Chennai** at SLA Institute.

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