Vbscript In Qtp Interview Questions And Answers

QTP - Vbscript interview questions and answers

Hi friends - on this page you will find all interview questions on QTP and VB script

In QTP, vbscript is used as a scripting language. 80% of programming you do in QTP is based vbscript concepts. So There is no doubt that you will face interview questions based upon vbscript.

Q1. How to find the length of string in QTP?

Answer -You can find the length of the string using one vb script function called len.

Suppose you want to find the length of "salunke" then you will have the below statement which will print the length of string .

print len("salunke")

Q2. How to find the current system time in QTP?

Answer - You can find the current system time using Time function in vbscript.

Print time

Q3. How to remove all spaces from given string in QTP?

Answer - We can use replace function in vbscript to remove all spaces in string.

e.g. newstring = replace(stringwithspaces," ","")

Q4. How to find the modulus of a number in QTP?

Answer - We can find the modulus of given number using MOD operator.

a = 10 mod 5

print a

Q5. How to find the size of array in QTP?

Answer - To find the size of array, we can use ubound function in QTP.

print ubound(arr) - 'prints upper bound of array.

Q6. What is the difference between byref and byval in QTP?

Answer - You can pass the parameters to function or procedure using byref or byval method.

byref will pass the address of variable but byval will pass the copy of variable. So when you want the passed value to change, you can pass the value using byref method. Otherwise you can pass it using byval method.

Q7. How to find the difference between 2 dates in QTP?

VBScript in QTP Interview Questions and Answers

VBScript, short for Visual Basic Scripting Edition, is a scripting language developed by Microsoft. It is widely used in conjunction with QuickTest Professional (QTP), now known as Unified Functional Testing (UFT), for automating user interface testing in applications. As automation continues to gain traction, many professionals find themselves preparing for interviews that delve into their knowledge of VBScript in QTP. This article aims to provide a comprehensive guide to common interview questions related to VBScript in QTP, along with detailed answers to help candidates prepare effectively.

Understanding VBScript and QTP

Before diving into interview questions, it's essential to understand the relationship between VBScript and QTP. VBScript serves as the scripting language within QTP, allowing testers to write scripts to automate testing processes. Understanding its syntax and functionalities is crucial for anyone looking to excel in automated testing roles.

Common VBScript Interview Questions

1. What is VBScript?

VBScript is a lightweight, interpreted scripting language derived from Visual Basic. It is primarily used for client-side scripting in web pages and is also used for server-side scripting and automation of tasks. In the context of QTP, it enables automation of applications by allowing testers to create scripts that simulate user actions.

2. What are the key features of VBScript?

Some of the key features of VBScript include:

- Simple Syntax: VBScript has a straightforward syntax that is easy to learn and use.
- Integration with HTML: It can be embedded directly into HTML pages, allowing for dynamic interactions.
- Support for COM Objects: VBScript can leverage Component Object Model (COM) objects to interact with applications and automate tasks.
- Dynamic Typing: Variables do not require explicit declaration of data types.
- Error Handling: VBScript provides mechanisms for error handling using constructs like `On Error Resume Next`.

3. What is the difference between QTP and UFT?

QTP (QuickTest Professional) is the earlier version of the automation tool, while UFT (Unified Functional Testing) is its successor, with enhanced features. The primary differences include:

- Integration: UFT offers better integration with ALM (Application Lifecycle Management) tools.
- Support for Mobile Testing: UFT extends its capabilities to mobile applications, unlike QTP.
- Enhanced User Interface: UFT provides a more user-friendly interface compared to QTP.
- Support for API Testing: UFT includes features for testing APIs directly.

4. How can you declare a variable in VBScript?

In VBScript, variables can be declared using the `Dim`, `Public`, or `Private` keywords. For

example:

```vbscript
Dim myVariable
```

If you want to declare a variable and assign it a value at the same time, you can do so like this:

```vbscript
Dim myVariable
myVariable = "Hello, World!"
```

5. What are the different data types supported by VBScript?

VBScript supports several data types, including:

- String: A sequence of characters.
- Integer: A whole number.
- Float: A number with decimal points.
- Boolean: Represents `True` or `False`.
- Variant: A special data type that can contain any type of data.

6. Explain the concept of arrays in VBScript.

An array is a data structure that can hold multiple values in a single variable. In VBScript, arrays can be declared as follows:

```vbscript
Dim myArray(5) ' Declares an array with 6 elements (0 to 5)
```

To assign values to an array:

```vbscript
myArray(0) = "First Element"
myArray(1) = "Second Element"
```

VBScript also supports dynamic arrays, which can be resized using the `ReDim` statement.

7. How do you handle errors in VBScript?

Error handling in VBScript can be done using the `On Error` statement. For example:

```vbscript
```

```
On Error Resume Next
' Code that may cause an error
If Err.Number <> 0 Then
MsgBox "An error occurred: " & Err.Description
End If
```

This snippet instructs VBScript to continue executing the next line of code when an error occurs, allowing for graceful error handling.

Advanced VBScript and QTP Questions

8. What is the purpose of the `Set` keyword in VBScript?

The `Set` keyword is used to assign an object reference to a variable. For example:

```vbscript
Set myObject = CreateObject("WScript.Shell")
```

In this example, `myObject` is now a reference to a `WScript.Shell` object, allowing you to interact with the Windows shell.

9. How can you read and write data from an external file in VBScript?

VBScript can read from and write to text files using the `FileSystemObject`. Here's an example of how to write data to a file:

```vbscript
Dim fso, file
Set fso = CreateObject("Scripting.FileSystemObject")
Set file = fso.CreateTextFile("C:\example.txt", True)
file.WriteLine("Hello, World!")
file.Close
```

To read from a file, you would use:

```vbscript
Set file = fso.OpenTextFile("C:\example.txt", 1)
Do While Not file.AtEndOfStream
MsgBox file.ReadLine
Loop
file.Close
```

```
```

10. Explain the use of functions in VBScript.

Functions in VBScript are used to encapsulate code for reuse. They can accept parameters and return values. Here's a simple function example:

```vbscript
Function AddNumbers(num1, num2)
AddNumbers = num1 + num2
End Function

Dim result
result = AddNumbers(5, 10) ' Calls the function and stores the result
```

11. How do you work with objects in QTP using VBScript?

In QTP, objects are manipulated using the `Object Repository`. You can interact with GUI elements using descriptive programming as follows:

```vbscript
Browser("Browser").Page("Page").WebButton("Button").Click
```

This line of code clicks on a web button found on a specified page in the browser.

12. Can you explain the concept of Regular Expressions in VBScript? How are they used in QTP?

Regular expressions are used in VBScript for pattern matching. They can validate strings, search for specific patterns, and replace text. In QTP, regular expressions help in parameterizing test scripts. For example:

```vbscript
Dim regEx
Set regEx = New RegExp
regEx.Pattern = "^[A-Za-z0-9]+$"
If regEx.Test("Test123") Then
MsgBox "Match found!"
End If
```

This checks if the string "Test123" matches the defined pattern.

Conclusion

Preparing for an interview focusing on VBScript in QTP requires a solid understanding of both the scripting language and the automation tool. By familiarizing yourself with the common questions and practicing the answers outlined above, you can enhance your confidence and improve your chances of success in your interview. Remember, hands-on experience is invaluable, so practicing writing scripts in VBScript and using QTP/UFT will further solidify your understanding and skills in this area. Good luck with your preparations!

Frequently Asked Questions

What is VBScript and how is it used in QTP?

VBScript is a scripting language developed by Microsoft that is used for automation and web development. In QTP (QuickTest Professional), now known as UFT (Unified Functional Testing), VBScript is used for writing automated test scripts to perform functional testing of applications.

Can you explain the difference between a function and a subroutine in VBScript?

In VBScript, a function is a block of code that returns a value, while a subroutine (or sub) does not return a value. Functions are defined using the 'Function' keyword and are called when a value is needed, whereas subroutines are defined with the 'Sub' keyword and are called for execution without returning a value.

How do you handle errors in VBScript within QTP?

Error handling in VBScript can be managed using 'On Error Resume Next' to ignore errors, and 'Err' object to capture error details. After an error occurs, you can check 'Err.Number' to determine the error type and take appropriate actions.

What is the purpose of the 'Set' keyword in VBScript?

The 'Set' keyword in VBScript is used to assign an object reference to a variable. It is necessary when dealing with objects, such as when you want to create an instance of a QTP/UFT object or any COM object.

How can you declare and use arrays in VBScript?

Arrays in VBScript can be declared using the 'Dim' statement. For example, 'Dim myArray(5)' creates an array with 6 elements (0 to 5). You can assign values using indices, e.g., 'myArray(0) = 'Value1'.

What are some common built-in functions in VBScript

that you use in QTP?

Common built-in functions in VBScript include 'MsgBox' for displaying messages, 'Len' for getting the length of a string, 'Trim' for removing spaces, and 'Date' for getting the current date. These functions help in manipulating data and debugging scripts.

Explain how to read data from an Excel file using VBScript in QTP.

To read data from an Excel file using VBScript in QTP, you can use the Excel.Application object. You need to create an instance of this object, open the workbook, access the desired worksheet, and then read the cell values using the 'Cells' method.

What is the difference between ByVal and ByRef in VBScript?

ByVal and ByRef are used to pass arguments to functions/subroutines in VBScript. ByVal passes a copy of the value, meaning changes to the parameter do not affect the original variable. ByRef passes a reference to the variable, allowing the function/subroutine to modify the original variable.

How can you implement loops in VBScript?

Loops in VBScript can be implemented using 'For...Next', 'Do...Loop', or 'While...Wend' constructs. For example, 'For i = 1 To 10' iterates from 1 to 10, and 'Do While condition' continues executing as long as the condition is true.

What is the significance of the 'Option Explicit' statement in VBScript?

The 'Option Explicit' statement in VBScript forces the declaration of all variables before they are used. This helps in avoiding errors due to typos in variable names and improves script readability and maintainability.

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