

UNIT 3:

Scripting:-

Java script: Introduction, documents, forms, statements, functions, objects; event and event handling; introduction to AJAX, VB Script

Sure, here is an overview of JavaScript:

Introduction

JavaScript is a lightweight, interpreted, object-oriented programming language. It is one of the three core technologies of the World Wide Web, along with HTML and CSS. JavaScript is used to add interactivity to web pages, such as making buttons clickable, validating forms, and animating images.

Documents

JavaScript can be used to manipulate the Document Object Model (DOM), which is a tree-like representation of an HTML document. This allows JavaScript to change the content, structure, and style of a web page dynamically.

Forms

JavaScript can be used to validate forms and process user input. This can be used to ensure that users enter valid data, such as email addresses or passwords.

Statements

JavaScript statements are the basic building blocks of JavaScript code. They are used to express instructions that the JavaScript interpreter will execute. Some common statements include:

- Assignment statements: These statements assign values to variables.
- Conditional statements: These statements allow JavaScript code to be executed conditionally.
- Loop statements: These statements allow JavaScript code to be executed repeatedly.

Functions

Functions are reusable blocks of code that can be called from anywhere in a JavaScript program. Functions can be used to encapsulate code, make code more readable, and improve code reuse.

Objects

Objects are the basic building blocks of JavaScript. They are used to represent real-world entities, such as cars, people, and websites. Objects have properties, which are data associated with the object, and methods, which are functions that can be executed on the object.

Events and event handling

Events are things that happen in a web browser, such as a mouse click or a keyboard press. Event handling is the process of responding to events. JavaScript can be used to handle events, such as displaying a message when a button is clicked or changing the color of a text box when a user enters text.

AJAX

AJAX stands for Asynchronous JavaScript and XML. It is a technique for loading data from a web server without reloading the entire web page. This can be used to make web pages more responsive and interactive.

VBScript

VBScript is a scripting language that is similar to JavaScript. It was developed by Microsoft and is used in some Microsoft products, such as Internet Explorer. VBScript is not as popular as JavaScript, but it is still a useful language for some tasks.

I hope this overview has given you a basic understanding of JavaScript. There are many resources available online that can help

Vbscript:-

The **VBScript** stands for **Visual Basics Script language**. Basically it is the combination of **Visual Basic** programming language and **JavaScript** language. VBScript was invented and maintained by Microsoft. It is used to develop dynamic web pages. It is much lighter compared to Visual Basic programming language but works as a scripting language like JavaScript. To run VBScript on the client-side, the client must have to use Internet Explorer because other browsers are still not supported by the VBScript.

VBScript currently runs on below mentioned environments:

- Internet Information Server (IIS) – It is a Microsoft web server.
- Windows Script Host(WSH) – It is a native hosting environment of Windows operating system.
- Internet Explorer (IE) – It is the simplest hosting environment where we can run VBScript code.

Prerequisite: To run VBScript script locally we need only two things:

- Text Editor (Any VBScript editors like Notepad++, Text Hawk, EditPlus, etc.)

- Microsoft Edge

Note: All the VBScript editors are actually HTML editors that supports VBScript. **Setup for VBScript:**

- **Step 1:** Open your text editor and create a basic HTML file (for example: index.html) and paste the below code inside that file.

html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>VBScript Introduction</title>
```

```
</head>
```

```
<body>
```

```
<!-- Paste VBScript Here -->
```

```
</body>
```

```
</html>
```

- **Step 2:** Paste the below code inside the body tag of your HTML code, or you can paste it inside the head tag. Exactly the same as you have done with JavaScript.

```
javascript
```

```
document.write("Hello geeks, greeting from GeeksforGeeks")
```

- **Step 3:** Combine both the code and run it on Microsoft Edge and you will get the below output in the console.

html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>VBScript Introduction</title>
```

```
</head>
```

```
<body>
```



```
<script type="text/vbscript">

    document.write("Welcome to GeeksforGeeks")

</script>

</body>

</html>
```

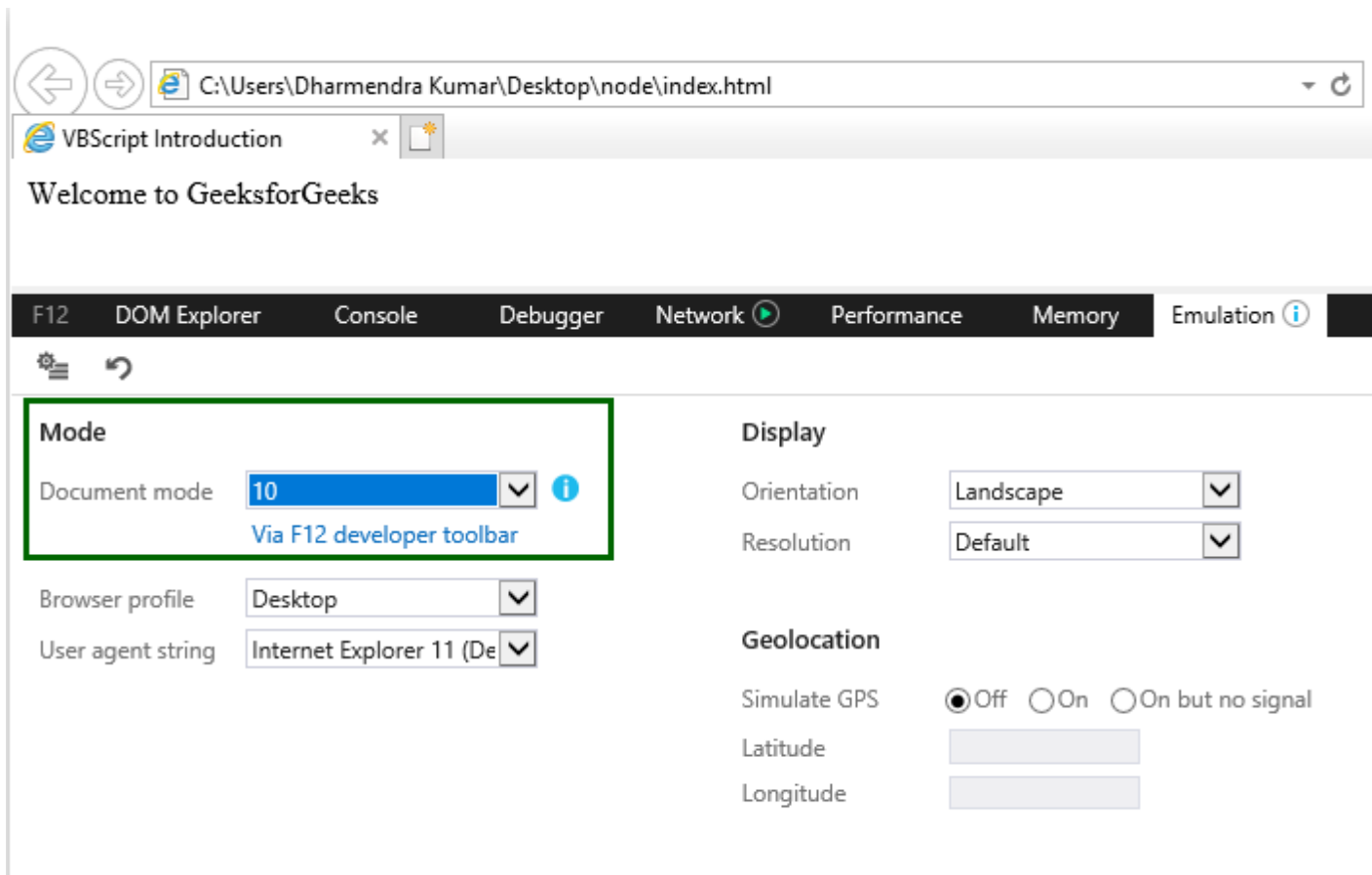
• Output:

Welcome to GeeksforGeeks

Note: To use in client-side, client have to use Microsoft Edge.

Troubleshoot: If your VBScript code is not working then use the following steps:

- Press F12 key or use Right click to open Inspect Element.
- Click on “Emulation” to open Emulation setting.
- Change the Document mode from Default to 10.



Disadvantages:

- The VBScript code will be processed by Microsoft Edge only. Other browsers except Microsoft Edge (like Chrome, Firefox, Safari, Opera etc) will not process the VBScript code.
- The VBScript code will run only Windows Operating System platform. Other operating systems (like Linux, Mac, etc) will not run.
- The VBScript code is used as a default scripting language of ASP.