Overview of JavaScript

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- What is Java Script?
- How to use a Java Script
- Where to place the Java Script along with the HTML code
- Sample codes

Introduction to JavaScript

- What is JavaScript?
  - It is a scripting language
        (a lightweight programming language)
  - It is an Interpreted language
        (it executes without preliminary compilation)
  - Usually embedded directly into HTML pages
  - It is designed to add interactivity to HTML pages
  - Java and JavaScript are different

What can a JavaScript Do?

JavaScript gives HTML designers a programming tool

JavaScript can put dynamic text into an HTML page

JavaScript can react to events

JavaScript can read and write HTML elements

JavaScript can be used to validate data

JavaScript can be used to apply AI,ML and DL techniques in the browser

JavaScript can be used to create cookies

Store and retrieve information on the visitor's computer

JavaScript How To

The HTML <script> tag is used to insert a JavaScript into an HTML page

```
<script type="text/javascript">
document.write("Hello World!");
</script>
```

The `<script>` tag is used to embed a client-side script.

The `<script>` element either contains scripting statements, or it points to an external script file through the "src" attribute.

JavaScript Where To

- You can include JavaScripts in head, body, or simply use external JavaScript file (.js)
- JavaScripts in the body section will be executed while the page loads
- JavaScripts in the head section will be executed when the head section is invoked
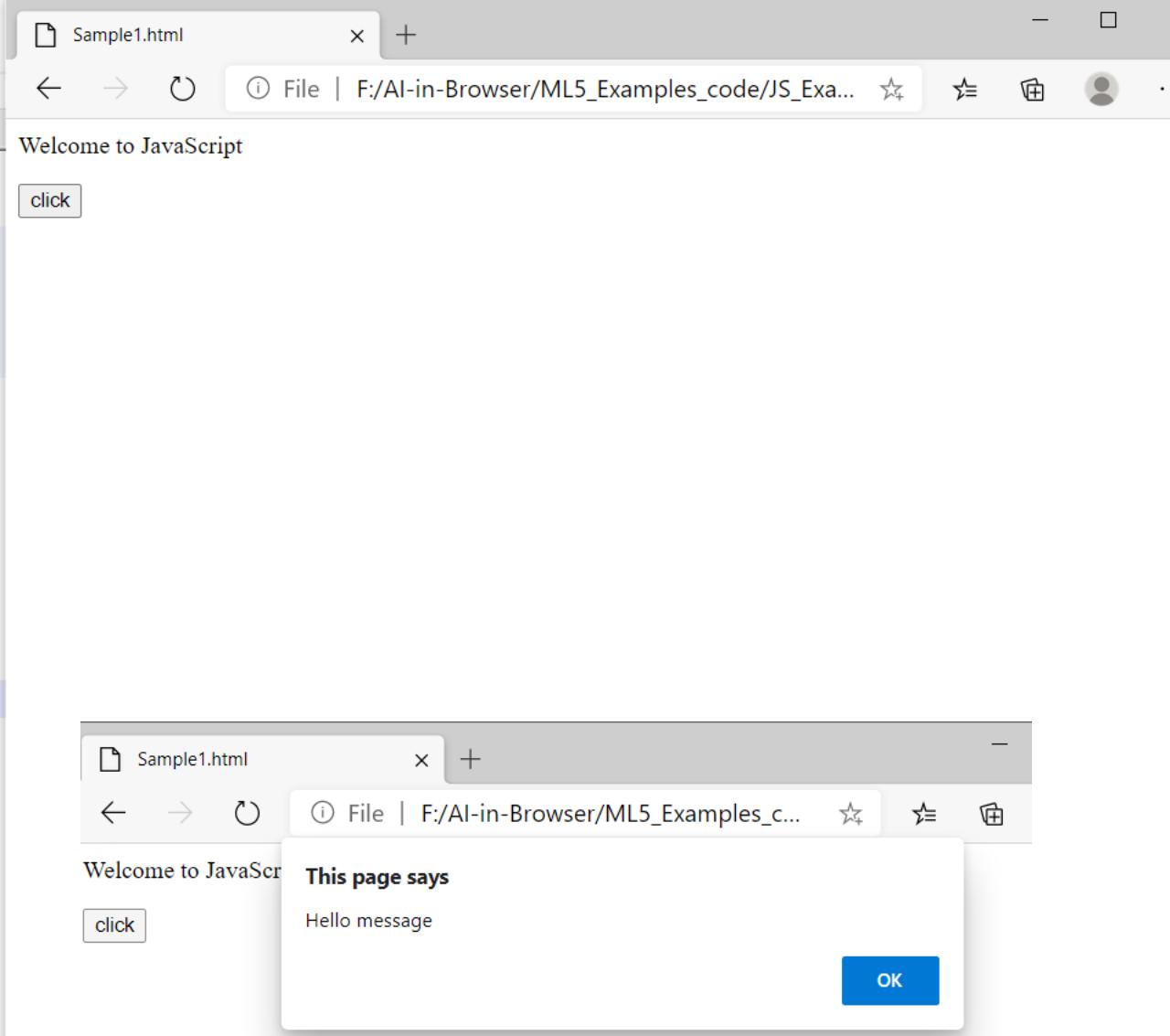
Example Java Script inside the head section
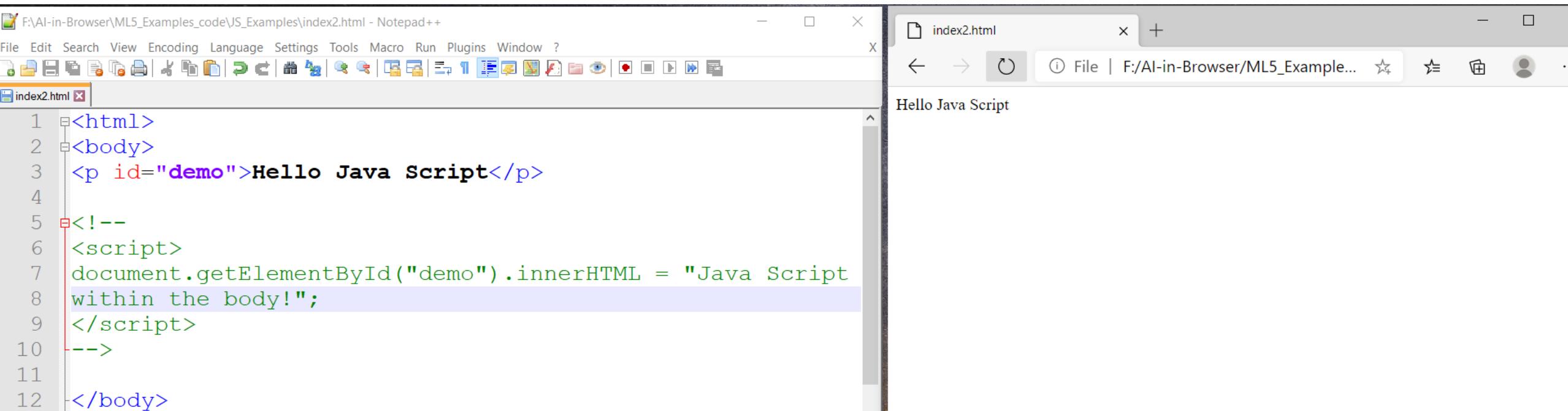
Example Java Script inside the body section


```html
<html>
<body>
<p id="demo">Hello Java Script</p>

<!--
<script>
document.getElementById("demo").innerHTML = "Java Script
within the body!";
</script>
-->

</body>
```

Browser output: Hello Java Script

```html
<html>
<body>
<p id="demo">Hello Java Script</p>

<script>
document.getElementById("demo").innerHTML = "Java Script w
</script>

</body>
</html>
```

Browser output: Java Script within the body!

Example: Java Script external to the program

message.js (Notepad++)
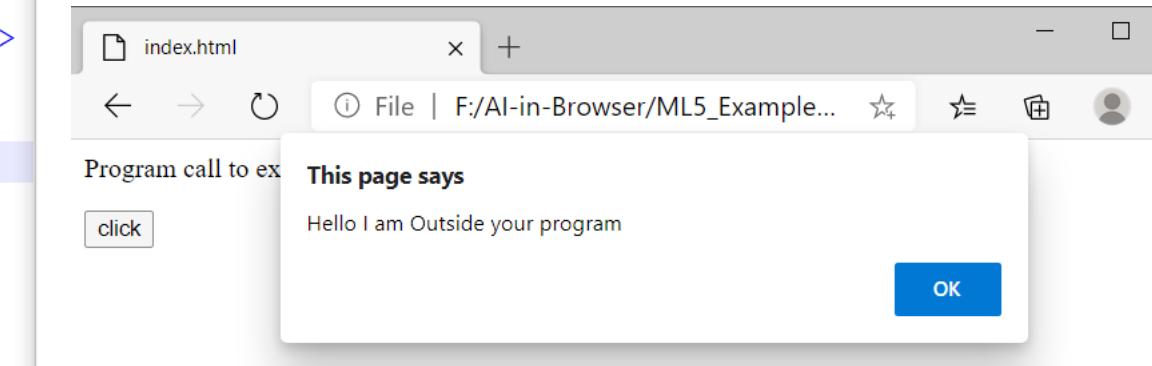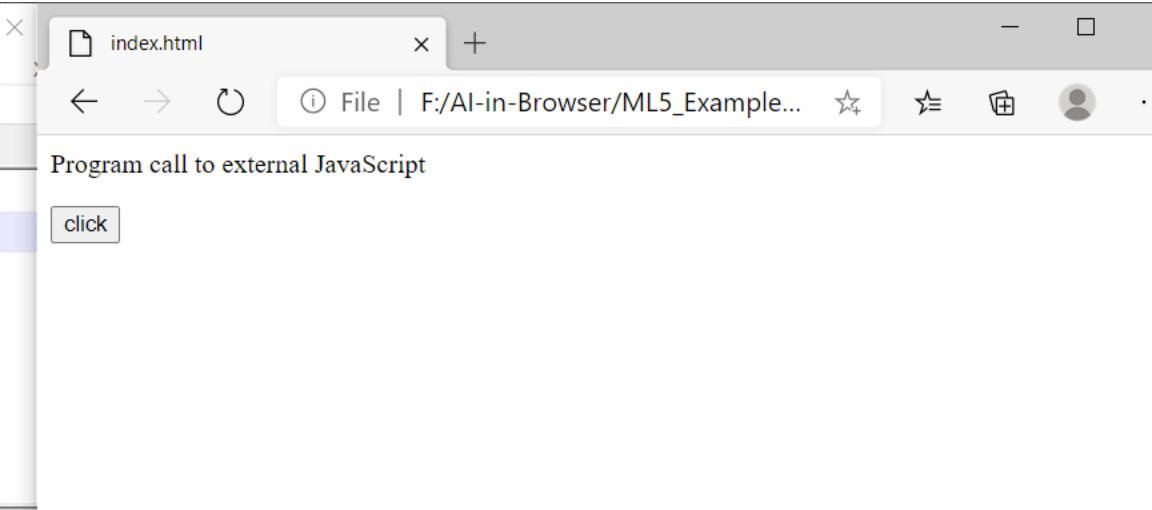
```javascript
function msg(){
    alert("Hello I am Outside your program");
}
```

JavaScript file — length : 68   lines : 3   Ln : 2   Col : 40   Sel : 0 | 0   Windows (CR LF)   UTF-8   INS
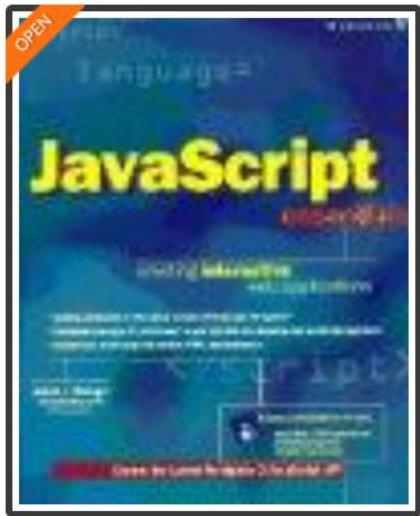
index.html (Notepad++)

```html
<html>
<head>
<script type="text/javascript" src="message.js"></script>
</head>
<body>
<p>Program call to external JavaScript</p>
<form>
<input type="button" value="click" onclick="msg()"/>
</form>
</body>
</html>
```

Browser — index.html

Program call to external JavaScript

[click]

Browser — index.html (alert dialog)

Program call to ex

This page says

Hello I am Outside your program

[OK]

Reference

JavaScript Essentials

Author: Neil Smyth

Subject: Computer Engineering, Software and Programming, Engineering and Technology, Computer Science and IT

Original Subject(s): Languages, Tools, JavaScript

Source: Knimbus Open ebooks

Publication/Source/Institution: JavaScript Essentials

Description

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