

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

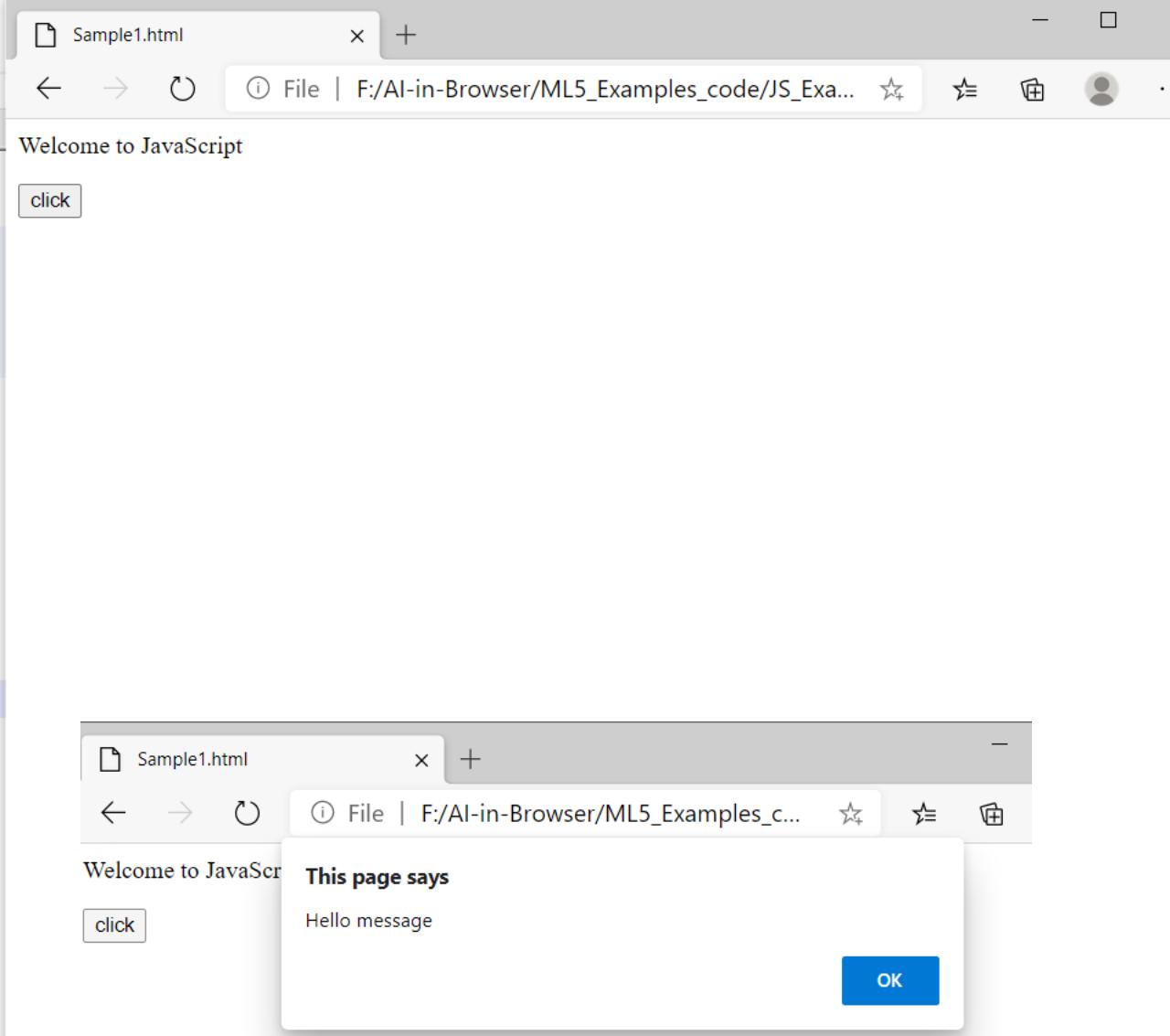
Example Java Script inside the head section

F:\AI-in-Browser\ML5_Examples_code\JS_Examples\Sample1.html - Notepad++

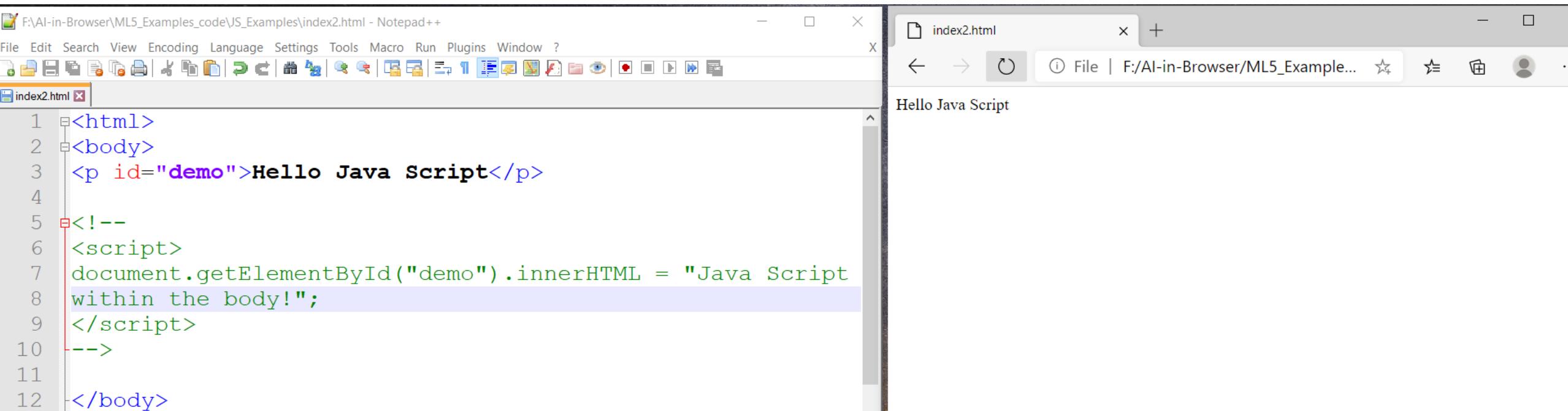
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Sample1.html

```
1 <html>
2 <head>
3 <script type="text/javascript">
4 function msg(){
5   alert("Hello message");
6 }
7 </script>
8 </head>
9 <body>
10 <p>Welcome to JavaScript</p>
11 <form>
12 <input type="button" value="click" onclick="msg()" />
13 </form>
14 </body>
15 </html>
```



Example Java Script inside the body section

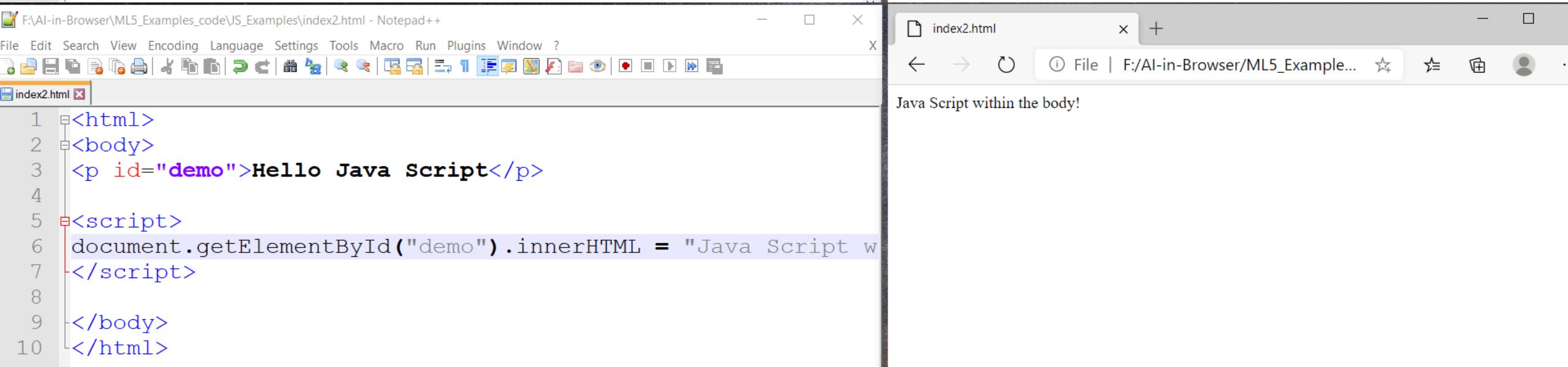


The screenshot displays two windows side-by-side. On the left is a Notepad++ editor showing the HTML file `index2.html`. The code contains a `<body>` section with a `<p id="demo">Hello Java Script</p>` element. Below it is a script block that changes the innerHTML of the `#demo` paragraph to "Java Script within the body!". On the right is a web browser window titled "index2.html" showing the rendered content: "Hello Java Script".

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

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

</body>
```



The screenshot displays two windows side-by-side. On the left is a Notepad++ editor showing the HTML file `index2.html`. The code is identical to the one in the previous screenshot, featuring a `<body>` section with a `<p id="demo">Hello Java Script</p>` element and a script block that changes the innerHTML of the `#demo` paragraph. On the right is a web browser window titled "index2.html" showing the rendered content: "Java Script within the body!".

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

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

</body>
</html>
```

Example: Java Script external to the program

message.js

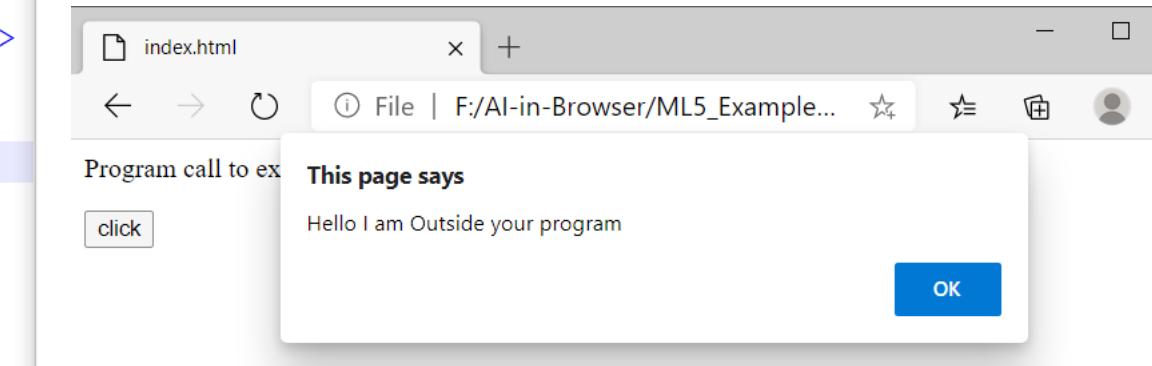
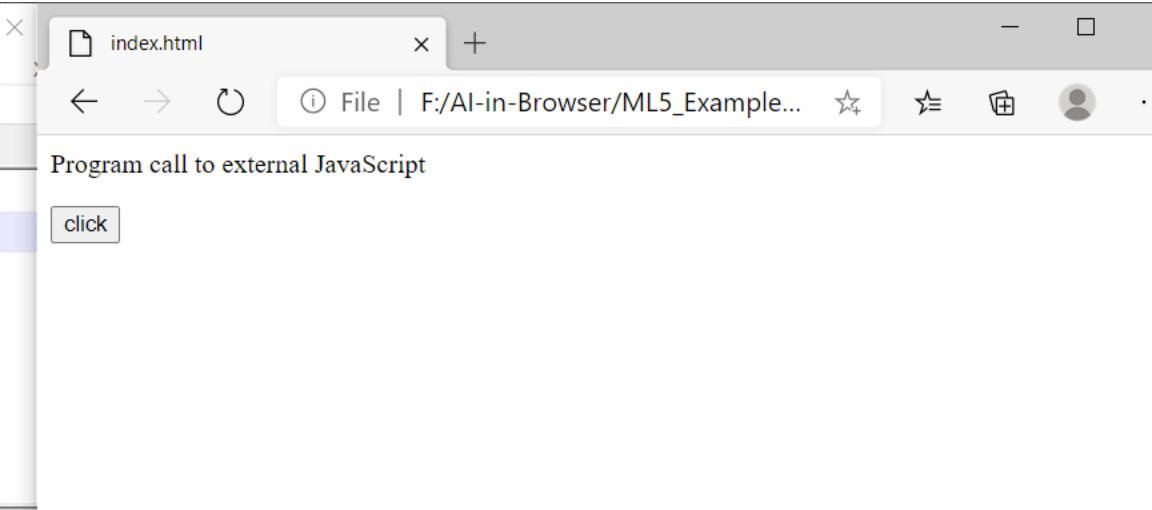
```
1 function msg () {  
2     alert("Hello I am Outside your program");  
3 }
```

JavaScript file length : 68 lines : 3 Ln : 2 Col : 40 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

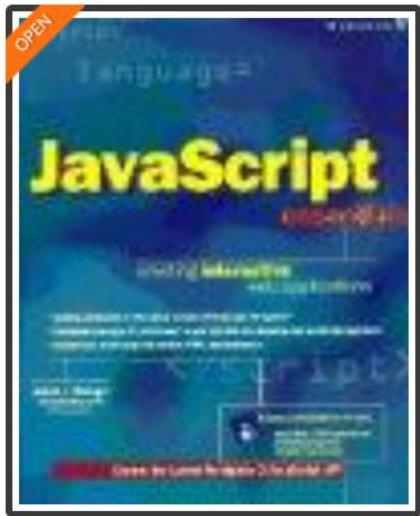
index.html

```
1 <html>  
2     <head>  
3         <script type="text/javascript" src="message.js"></script>  
4     </head>  
5     <body>  
6         <p>Program call to external JavaScript</p>  
7         <form>  
8             <input type="button" value="click" onclick="msg()"/>  
9         </form>  
10    </body>  
11 </html>
```

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?



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

Read

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