

## HTML <script> Tag

The HTML <script> tag embeds client-side scripts or links to external JavaScript files, enabling dynamic content, form validation, and style manipulation. Attributes like async, defer, and src control script execution and loading, enhancing the interactivity and performance of web pages.

### Syntax

For Internal Javascript Linking

```
<script>Script Content</script>
```

For External Javascript Linking

```
<script src="script.js"></script>
```

### Attributes of the <script> Tag

- src Attribute: Specifies the URL of the external JavaScript file to be loaded and executed. If used, the content within the <script> tags is ignored.
- type Attribute: Specifies the MIME type of the script. For JavaScript, the value should typically be text/javascript. However, in HTML5, this attribute is optional as JavaScript is assumed by default.
- async Attribute: Indicates that the script should be executed asynchronously as soon as it is available, without blocking the rendering of the page. Useful for non-blocking scripts.
- defer Attribute: Delays execution of the script until after the HTML document has been fully parsed and loaded. Multiple deferred scripts are executed in the order they appear in the document.

### Embedding JavaScript Code

Inline Scripting:

- You can include JavaScript directly within the <script> tags embedded in the HTML document.

Example:

```
<script>
```

```
// JavaScript code here
```

```
alert('Hello, World!');
```

```
</script>
```

External Script Files:

- The <script> tag can also reference an external JavaScript file using the src attribute.

Example:

```
<script src="script.js"></script>
```

### Program Example

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>HTML script Tag</title>
```

```
</head>
```

```
<body>
```

```
    <h1>Hello!!!</h1>
```

```
    <h2>HTML script Tag</h2>
```

```
<button type="button" onclick="example()">
```

```
    Welcome to HTML
```

```
</button>
```

```
<script>
```

```
    function example() {
```

```
        alert('Welcome to Script tag in HTML!');
```

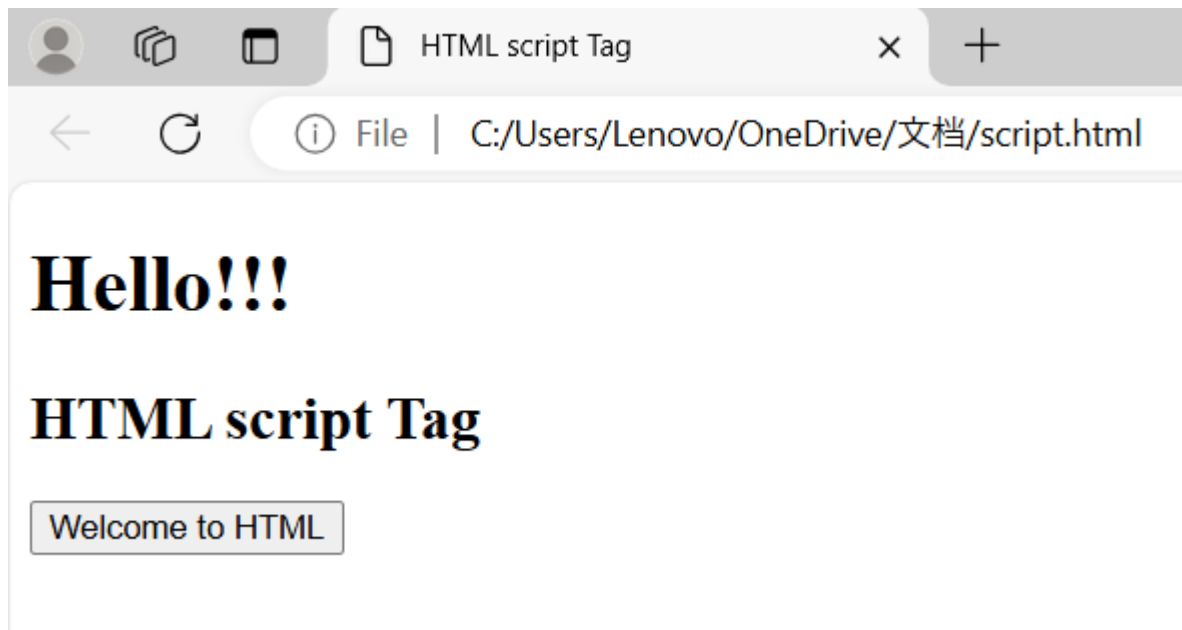
```
    }
```

```
</script>
```

```
</body>
```

```
</html>
```

## Output



On clicking Welcome to HTML

