JavaScript

CCAPDEV

JavaScript

- Programming language that is used for web development

- Designed to add interactivity to HTML pages

- is multi-paradigm, as it supports object-oriented, imperative, and declarative styles.

JavaScript

- Accept Input
  - Text fields, checkboxes, buttons, etc.
- Process Data
  - Make decisions, manipulate variables
- Modify Pages on the Fly
  - Change text, replace mages, special effects
- Manipulate Windows
  - Open windows, write to them, close them

JavaScript

Attaching JavaScript to your webpage

- **External** – Separate file
- **Internal** – Embedded in `<head>` and/or in `<body>`
- **Inline** – Placed inside HTML element tags as attributes

JavaScript

- Scripts in the `<head>` section will be processed first before the page loads
- Scripts in the `<body>` section will execute when the page loads
- You can place an unlimited number of scripts in your document, so you can have scripts in both the `<head>` and the `<body>` section
- Scripts you want to be called later should be in a function

External JS

A separate `.js` file connected using a `<script>` element inside the `<head>` and/or `<body>` element of the HTML.

```
<head>

        <title> Sample Title </title>
        <script src="external.js"></script>
</head>
```

External JS

A separate `.js` file connected using a `<script>` element inside the `<head>` and/or `<body>` element of the HTML.

```
<body>

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

External JS

Best used to control multiple web pages.

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

src – specifies the URI of an external script file

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Internal JS

Defined in the `<head>` and/or `<body>` of the HTML document using the `<script>` tag

```
<head>

        <title> Sample Title </title>
        <script>

                document.write("Hello World!");
        </script>
</head>
```

Internal JS

Defined in the `<head>` and/or `<body>` of the HTML document using the `<script>` tag

```
<body>

    <script>

        document.write("Hello World!");
    </script>
</body>
```

Inline JS

Attached to the HTML element using the JavaScript event handlers.

```
<a [event]="[script]"
href="https://www.google.com"> Google </a>


<a onclick="alert('Going to Google')"
href="https://www.google.com"> Google </a>
```

List of event attributes:
https://www.w3schools.com/tags/ref_eventattributes.asp

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