document.querySelector() in JavaScript:

document.querySelector() is a method in JavaScript that allows you to select **the first matching element** from the DOM using **CSS selectors**.

1). Select by ID (#id)

```
html

<h1 id="main-heading">Welcome to DOM!</h1>

<script>

const heading = document.querySelector("#main-heading");

console.log(heading); // <h1>Welcome to DOM!</h1>
</script>
```

2). Select by Class (.class)

3). Select by Tag Name (tag)

```
html

div>First Div</div>
<div>Second Div</div>
<script>
const div = document.querySelector("div");
console.log(div); // Selects the first <div>
</script>
```

4). Select Using Nested Selectors You can combine selectors like in CSS:

5). Select Using Attribute Selector

document.querySelectorAll() in JavaScript

document.querySelectorAll() is a powerful method that allows you to select **all elements** from the DOM that match a specified **CSS selector**.

- -> Returns: A NodeList containing all matching elements.
- -> **Selector**: Uses CSS selectors like #id, .class, tag, attribute, etc.
- 1. Select Multiple Elements by Class Name

```
html

⟨p class="text">Paragraph 1
⟨p class="text">Paragraph 2
⟨p class="text">Paragraph 3
⟨p class="text">Paragraph 3
⟨script>
const paragraphs = document.querySelectorAll(".text");
console.log(paragraphs); // NodeList of all ⟨p> elements with class "text" ⟨/script>
```

2. Select Using Tag Name

```
html

div>First Div</div>
<div>Second Div</div>
<div>Third Div</div>

const divs = document.querySelectorAll("div");

console.log(divs); // NodeList of all <div> elements
</script>
```

3. Select Using ID and Class Combination

4. Select Using Attribute Selector