***NAME: HUZAIFA SHAHID***

***GROUP: ALI HAIDER***

***REPORT #: W:4,D:6***

***TASK TITLE DOM Manipulation: getElementById, querySelector, innerHTML***

**🌐 DOM Manipulation in JavaScript**

The **DOM (Document Object Model)** allows JavaScript to access and change the content, structure, and style of web pages. Three commonly used methods for DOM manipulation are:

**1. getElementById()**

* **Use**: Selects a single element by its id attribute.
* **Syntax**:

let element = document.getElementById("myId");

* **Example**:

<p id="demo">Hello</p>

<script>

document.getElementById("demo").innerHTML = "Hi!";

</script>

**2. querySelector()**

* **Use**: Selects the **first** element that matches a CSS selector.
* **Syntax**:

let element = document.querySelector(".myClass"); // or "#myId"

* **Example**:

<div class="box">Box 1</div>

<script>

document.querySelector(".box").innerHTML = "Updated Box";

</script>

**3. innerHTML**

* **Use**: Gets or sets the **HTML content** inside an element.
* **Syntax**:

element.innerHTML = "New Content";

* **Example**:

<div id="content">Old Content</div>

<script>

document.getElementById("content").innerHTML = "<b>Bold New Content</b>";

</script>

value);

}

function clearDisplay() {

result.value = "";

}