**Lab #4:**
CLIENT-SIDE SCRIPTING

| Topic | Web page development using HTML and Scripting (e.g. JavaScript) |
|---|---|
| **Domain of Learning** | Psychomotor (P2: Set; P3: Guided Respond; P4: Mechanism) |
| **Learning objective** | 1. To evaluate the response in order to solve the problem as required. (P2)<br>2. To evaluate the skill how the web page is developed whereas using the code/tags correctly. (P3)<br>3. To evaluate value added of creativity/knowledge/skill in web page development. (P4) |
| **Lab activity objective** | To use the combination of HTML tags, CSS and scripts properly based on the suitable requirement of case study. |

**Instruction: Answer all questions. Write your answer and screenshot the output in Microsoft Word. Submit through Author in PDF format.**
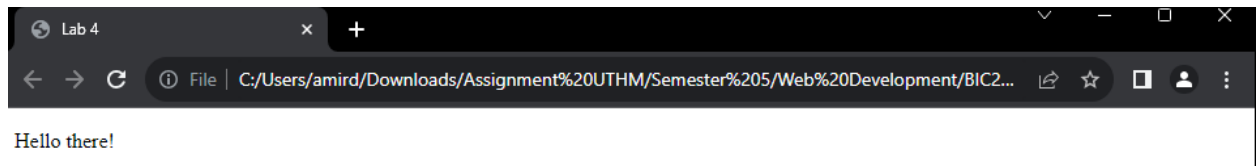
1. Write an HTML with JavaScript statements to change the content of the \<p> to "Hello there!".

```
<div id="myElement">
  <p>Welcome to my website!</p>
</div>
```

Answer :

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Lab 4</title>
</head>
    <body>
        <div id="myElement">
            <p>Welcome to my website!</p>
        </div>

        <script>
            var paragraphElement = document.getElementById("myElement").getElementsByTagName("p")[0];
            paragraphElement.innerHTML = "Hello there!";
        </script>
    </body>
```

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Hello there!

2.      Based on the HTML code below, write an HTML with a JavaScript function that uses if else condition to validate if the number entered is lower or higher than 10. If it is lower than 10, then make an alert of "The number is lower than 10", otherwise "The number is higher than 10". If the user entered other than numbers (eg:alphabets), alert "Please insert a number!".

```
<input type="text" id="userInput" placeholder="Enter a number">
<button onclick="checkInput()">Check</button>
```

Answer:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Number Validation</title>
    </head>
    <body>
        <input type="text" id="userInput" placeholder="Enter a number">
        <button onclick="checkInput()">Check</button>

        <script>
            function checkInput() {
                // Get the user input value
                var userInput = document.getElementById("userInput").value;

                // Check if the input is a valid number
                if (isNaN(userInput)) {
                    // Alert if the input is not a number
                    alert("Please insert a number!");
                } else {
                    // Convert the input to a number for comparison
                    var numericInput = parseFloat(userInput);

                    // Check if the number is lower or higher than 10
                    if (numericInput < 10) {
                        alert("The number is lower than 10");
                    } else {
                        alert("The number is higher than 10");
                    }
                }
            }
        </script>
    </body>
```
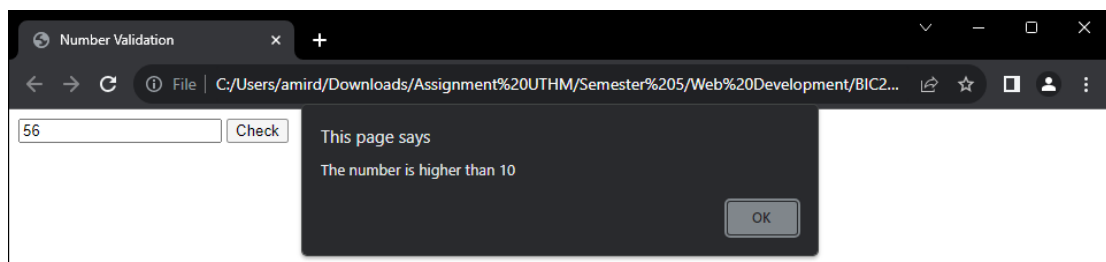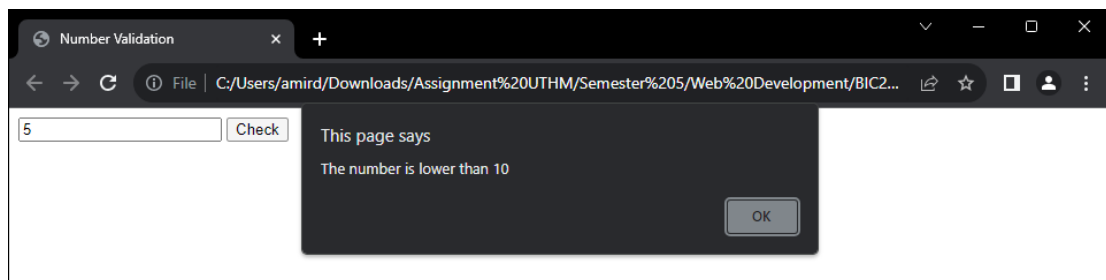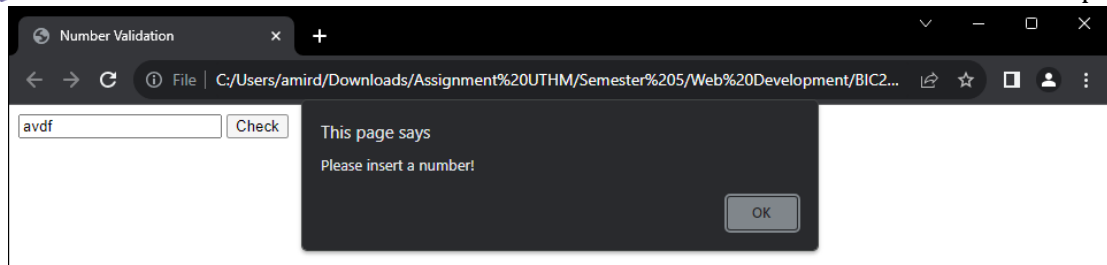
3. Complete the JavaScript code below to produce the following output. Write your answer in a complete HTML code.

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

        <script>

             let text = "";

             for (let i = 0; //your answer) {

            text += "The number is " //your answer }
            document.getElementById("demo").innerHTML = text;

        </script>
```

Output:

```
The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
```

Number Validation

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The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
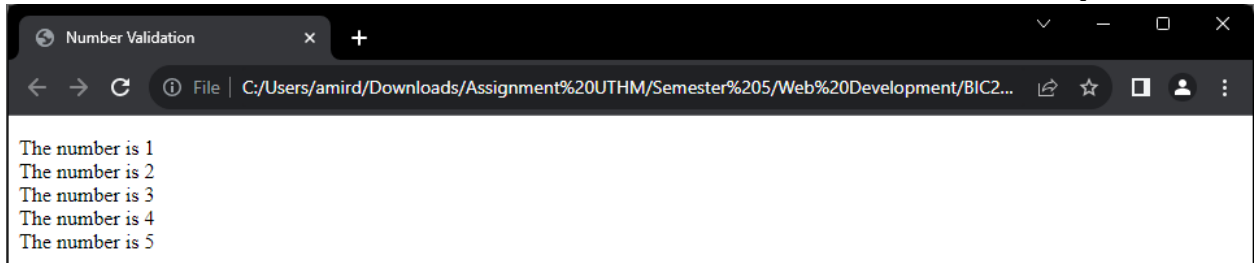
Answer :

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Number Validation</title>
    </head>
    <body>
        <p id="demo"></p>

        <script>
            let text = "";
            for (let i = 1; i <= 5; i++) {
            text += "The number is " + i + "<br>";
            }
            document.getElementById("demo").innerHTML = text;
        </script>
    </body>
</html>
```