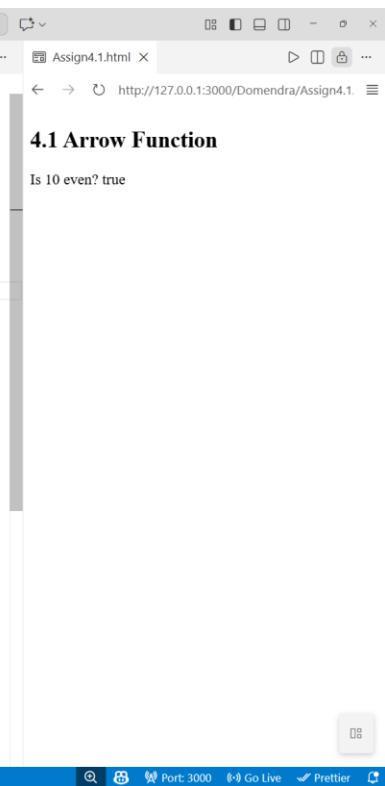


4.1. Write an arrow function isEven(num) that returns true if a number is even.

Code/Output:



The screenshot shows a Microsoft Edge browser window with two tabs. The left tab is titled 'Assign4.1.html' and contains the source code for a simple arrow function. The right tab is titled 'Assign4.1.html' and displays the output of the code execution. The output page has a title '4.1 Arrow Function' and the question 'Is 10 even? true'. The source code in the left tab is as follows:

```
<!DOCTYPE html>
<html>
<body>
<h2>4.1 Arrow Function</h2>
<p id="result"></p>
<script>
// Simple Arrow Function
const isEven = (num) => {
  if (num % 2 === 0) {
    return true;
  } else {
    return false;
  }
};

// Test with number 10
let answer = isEven(10);
document.getElementById("result").innerHTML = "Is 10 even?
" + answer;
</script>
</body>
</html>
```

4.2. Create a multiline string using template literals showing a 3-line message.

Code/Output:

The screenshot shows a code editor interface with two tabs: 'Assign4.2.html' in the editor and 'Assign4.2.html' in the browser preview. The browser preview displays the heading '4.2 Multiline String' and three lines of text: 'Line One: Hello', 'Line Two: World', and 'Line Three: JavaScript'. The code editor shows the following HTML and JavaScript code:

```
<!DOCTYPE html>
<html>
<body>
    <h2>4.2 Multiline String</h2>
    <p id="result" style="white-space: pre-line;"></p>
    <script>
        // Using backticks ` for multiple lines
        let message = `Line One: Hello
Line Two: World
Line Three: JavaScript`;
        document.getElementById("result").innerHTML = message;
    </script>
</body>
</html>
```

4.3. Merge two arrays using the spread operator

Code/Output:

The screenshot shows a Microsoft Visual Studio Code interface. On the left is the Explorer sidebar with a file tree. The current file is 'Assign4.3.html' under the 'Domendra' folder. The code editor window contains the following HTML and JavaScript code:

```
<!DOCTYPE html>
<html>
<body>
<h2>4.3 Merge Arrays</h2>
<p id="result"></p>
<script>
let groupA = ["Apple", "Banana"];
let groupB = ["Mango", "Orange"];

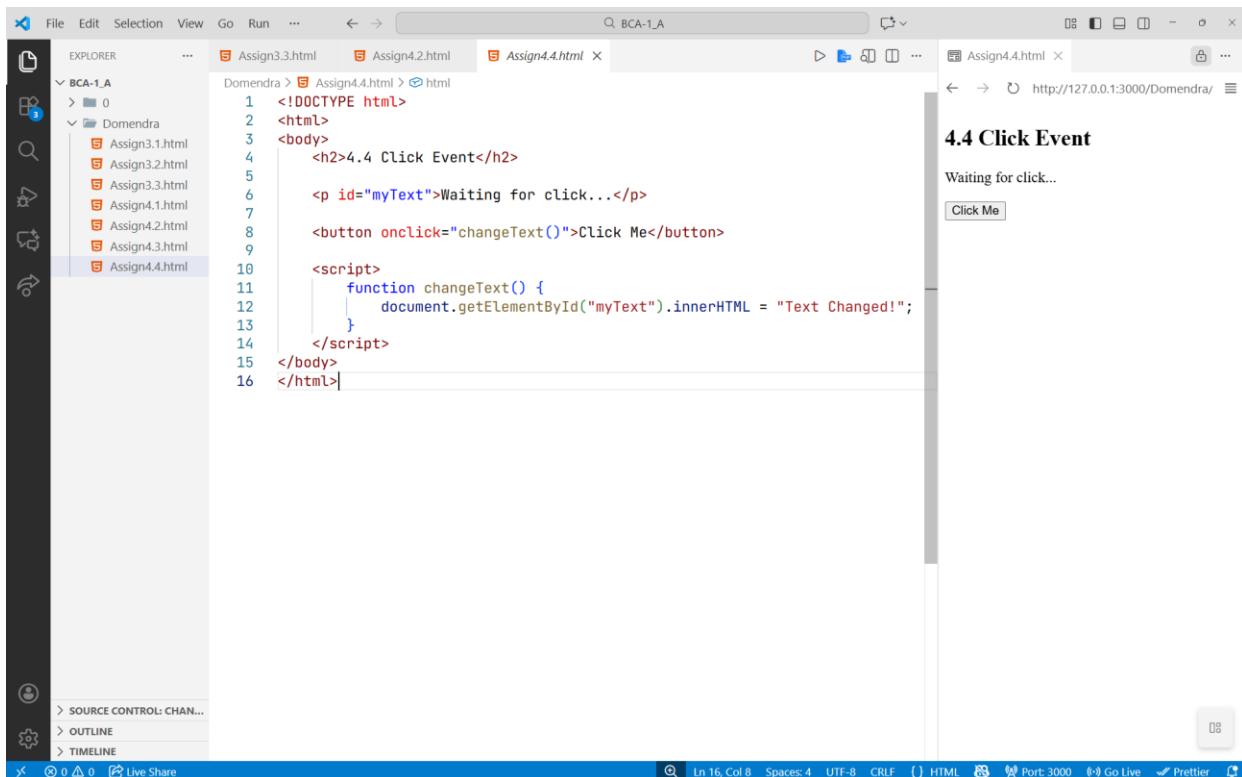
// The ... copies the items from both arrays
let allFruits = [...groupA, ...groupB];

document.getElementById("result").innerHTML = allFruits;
</script>
</body>
</html>
```

The browser preview on the right shows the output: **4.3 Merge Arrays** and the list of fruits: Apple,Banana,Mango,Orange.

4.4. Add a click event to a button that changes the text of a paragraph.

Code/Output:



BCA-1_A

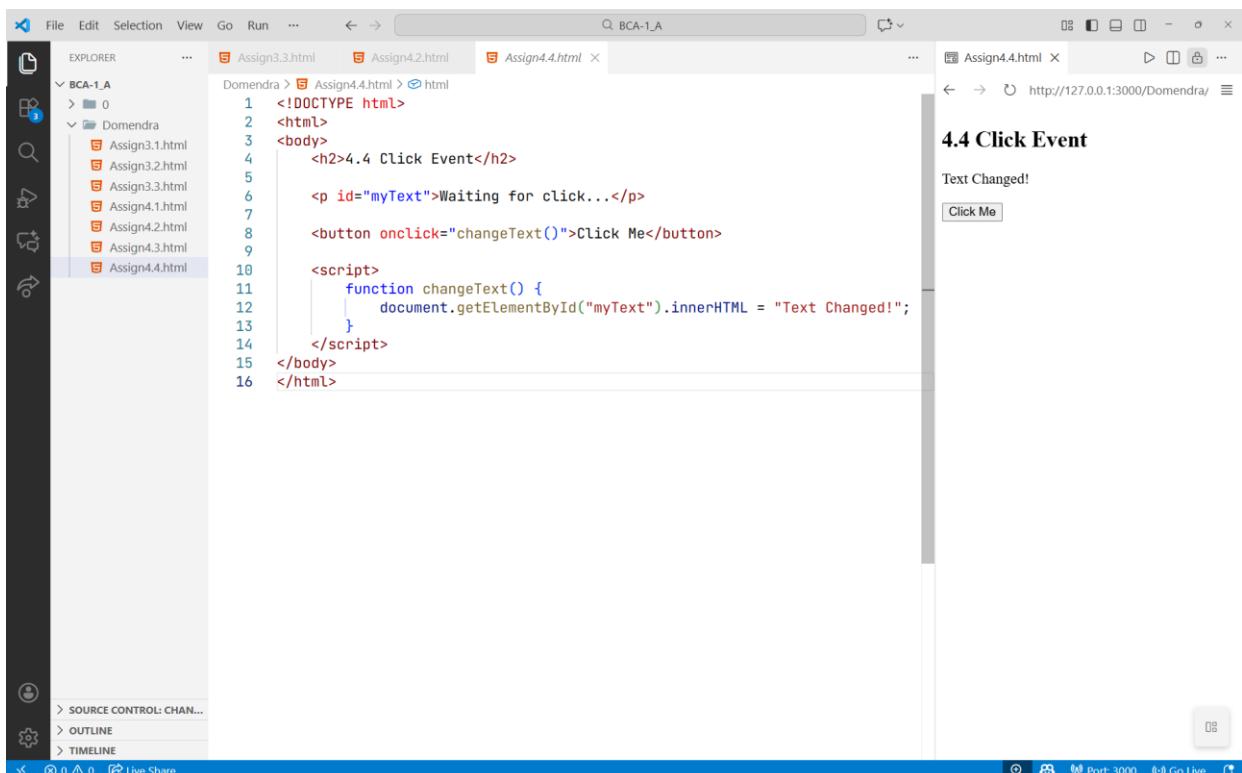
Domendra

```
<!DOCTYPE html>
<html>
<body>
    <h2>4.4 Click Event</h2>
    <p id="myText">Waiting for click...</p>
    <button onclick="changeText()">Click Me</button>
    <script>
        function changeText() {
            document.getElementById("myText").innerHTML = "Text Changed!";
        }
    </script>
</body>
</html>
```

4.4 Click Event

Waiting for click...

Click Me



BCA-1_A

Domendra

```
<!DOCTYPE html>
<html>
<body>
    <h2>4.4 Click Event</h2>
    <p id="myText">Waiting for click...</p>
    <button onclick="changeText()">Click Me</button>
    <script>
        function changeText() {
            document.getElementById("myText").innerHTML = "Text Changed!";
        }
    </script>
</body>
</html>
```

4.4 Click Event

Text Changed!

Click Me