EXPERIMENT 3

AIM: Java script basics – loops, arrays, functions.

OBJECTIVE:

- To provide knowledge on developing web pages design and development.
- To understand how the HTML, CSS and JavaScript components of Bootstrap work.

OUTCOME:

Develop static web pages using HTML, CSS and Bootstrap.

Develop interactive web pages using JS.

Use React JS framework in web pages effectively.

PROGRAM CODE:

index.html

```html
<!DOCTYPE html>
<html lang="en">


<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Experiment 3</title>
</head>


<body>
    <h1>JavaScript Basics - Loops, Arrays, and Functions</h1>
    <!-- Give reference to the separate JS file just before the body
closing tag -->
    <script src="index.js"></script>
</body>


</html>
```

index.js

```javascript
// Function to reverse the elements of an array
function reverseArray(arr) {
    // Create a new array to store the reversed elements
    let reversedArray = [];

    // Loop through the original array from the end to the beginning
    for (let i = arr.length - 1; i >= 0; i--) {
        // Add each element to the new array
        reversedArray.push(arr[i]);
    }

    // Return the new array with reversed elements
    return reversedArray;
}

// Create an array of numbers
const originalArray = [1, 2, 3, 4, 5];

// Call the function to reverse the array and store the result
const reversedArray = reverseArray(originalArray);

// Output the original and reversed arrays
console.log("Original Array:", originalArray);
console.log("Reversed Array:", reversedArray);
```

OUTPUT:

JavaScript Basics - Loops, Arrays, and Functions