

### 3.1. Count how many even and odd numbers are there.

Code/Output:

The screenshot shows a code editor interface with two panes. The left pane is the 'EXPLORER' view, showing a project structure under 'BCA-1\_A' with files like 'Assign3.1.html', 'Assign3.2.html', etc. The right pane is the 'Assign3.1.html' file content.

```
<!DOCTYPE html>
<html>
<body>
<h2>3.1 Count Even and Odd</h2>
<p id="result"></p>

<script>
let numbers = [10, 15, 20, 25, 30, 33];
let evenCount = 0;
let oddCount = 0;

// Simple loop to check each number
for (let i = 0; i < numbers.length; i++) {
  if (numbers[i] % 2 === 0) {
    evenCount++;
  } else {
    oddCount++;
  }
}

document.getElementById("result").innerHTML =
"Even: " + evenCount + "<br>" + "Odd: " + oddCount;
</script>
</body>
</html>
```

The output pane shows the rendered HTML content: **3.1 Count Even and Odd**. Below it, the console output shows: Even: 3 and Odd: 3.

### 3.2. Remove duplicate values from an array.

Code/Output:

The screenshot shows a code editor interface with two panes. The left pane displays the file structure under 'BCA-1\_A' with 'Assign3.2.html' selected. The right pane shows the content of 'Assign3.2.html' and its output in a browser window.

**Code Content:**

```
<!DOCTYPE html>
<html>
<body>
<h2>3.2 Remove Duplicates</h2>
<p id="result"></p>
<script>
let numbers = [1, 2, 2, 3, 4, 4, 5];
// "Set" automatically removes duplicates
let uniqueNumbers = [...new Set(numbers)];
document.getElementById("result").innerHTML = uniqueNumbers;
</script>
</body>
</html>
```

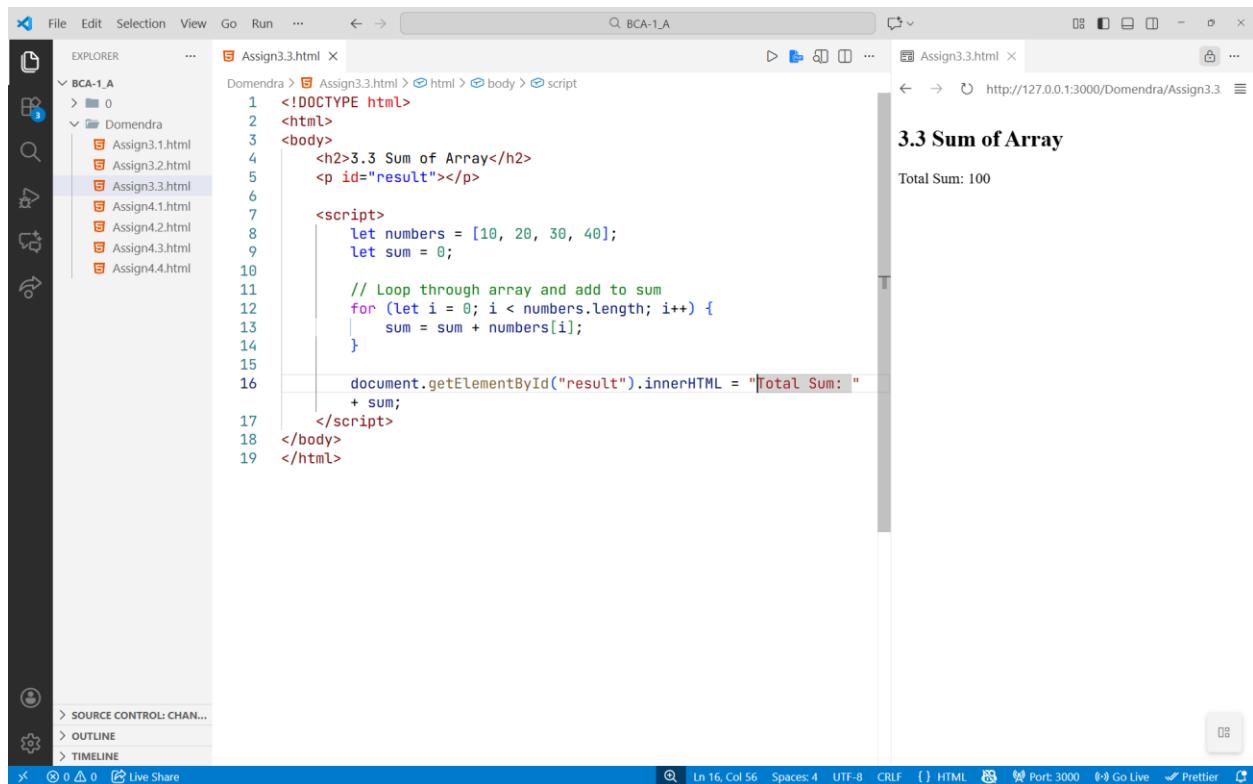
**Browser Output:**

**3.2 Remove Duplicates**

1,2,3,4,5

### 3.3. Find the sum of all numbers in an array.

Code/Output:



The screenshot shows a code editor interface with the following details:

- File Explorer (Left):** Shows a project structure under "BCA-1\_A" with files like 0, Domendra, Assign3.1.html, Assign3.2.html, Assign3.3.html (selected), Assign4.1.html, Assign4.2.html, Assign4.3.html, and Assign4.4.html.
- Code Editor (Center):** The file "Assign3.3.html" is open, displaying the following code:

```
<!DOCTYPE html>
<html>
<body>
<h2>3.3 Sum of Array</h2>
<p id="result"></p>
<script>
let numbers = [10, 20, 30, 40];
let sum = 0;

// Loop through array and add to sum
for (let i = 0; i < numbers.length; i++) {
    sum = sum + numbers[i];
}

document.getElementById("result").innerHTML = "Total Sum: " + sum;
</script>
</body>
</html>
```
- Output Panel (Right):** Shows the rendered HTML output titled "3.3 Sum of Array" with the text "Total Sum: 100".
- Bottom Status Bar:** Shows "Ln 16, Col 56" and other status indicators.