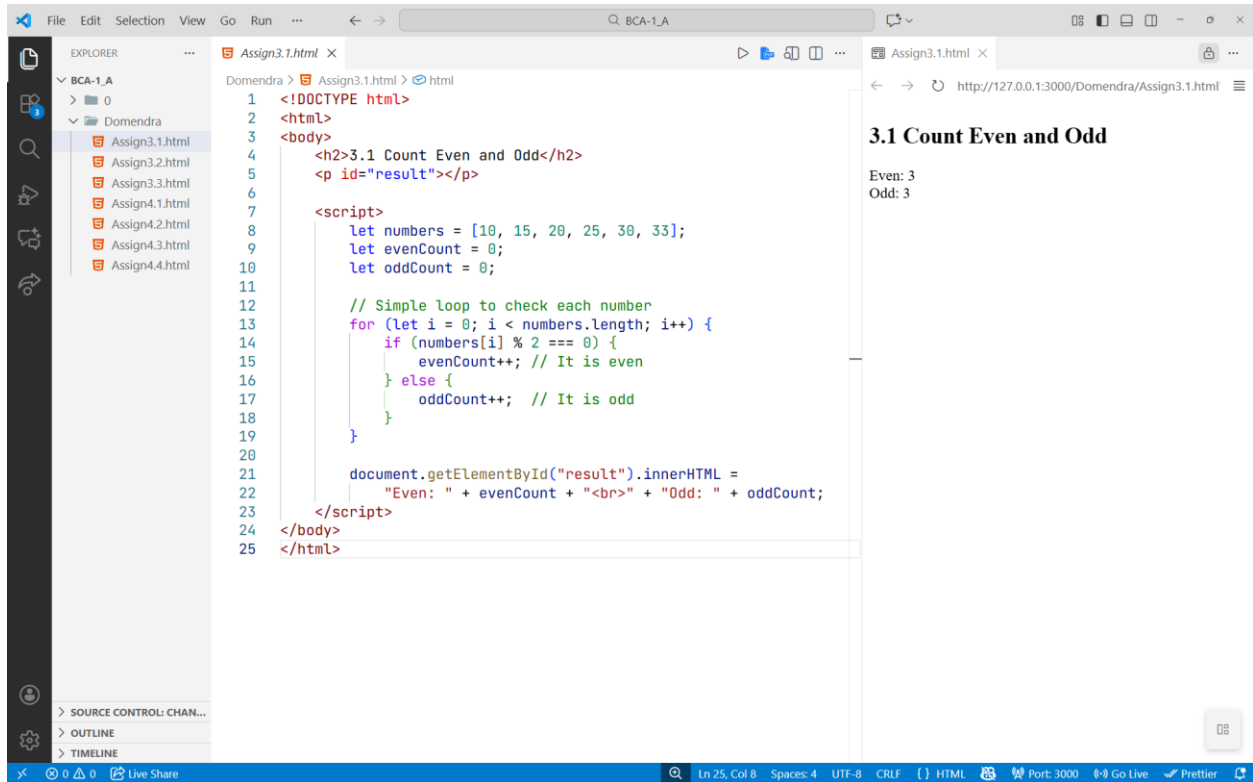


3.1. Count how many even and odd numbers are there.

Code/Output:



The screenshot shows a Visual Studio Code editor with a file explorer on the left containing a project named 'BCA-1_A' with subfolders '0' and 'Domendra'. The 'Domendra' folder contains files 'Assign3.1.html' through 'Assign4.4.html'. The main editor displays 'Assign3.1.html' with the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4   <h2>3.1 Count Even and Odd</h2>
5   <p id="result"></p>
6
7   <script>
8     let numbers = [10, 15, 20, 25, 30, 33];
9     let evenCount = 0;
10    let oddCount = 0;
11
12    // Simple loop to check each number
13    for (let i = 0; i < numbers.length; i++) {
14      if (numbers[i] % 2 === 0) {
15        evenCount++; // It is even
16      } else {
17        oddCount++; // It is odd
18      }
19    }
20
21    document.getElementById("result").innerHTML =
22      "Even: " + evenCount + "<br>" + "Odd: " + oddCount;
23  </script>
24 </body>
25 </html>
```

The browser preview on the right shows the rendered output:

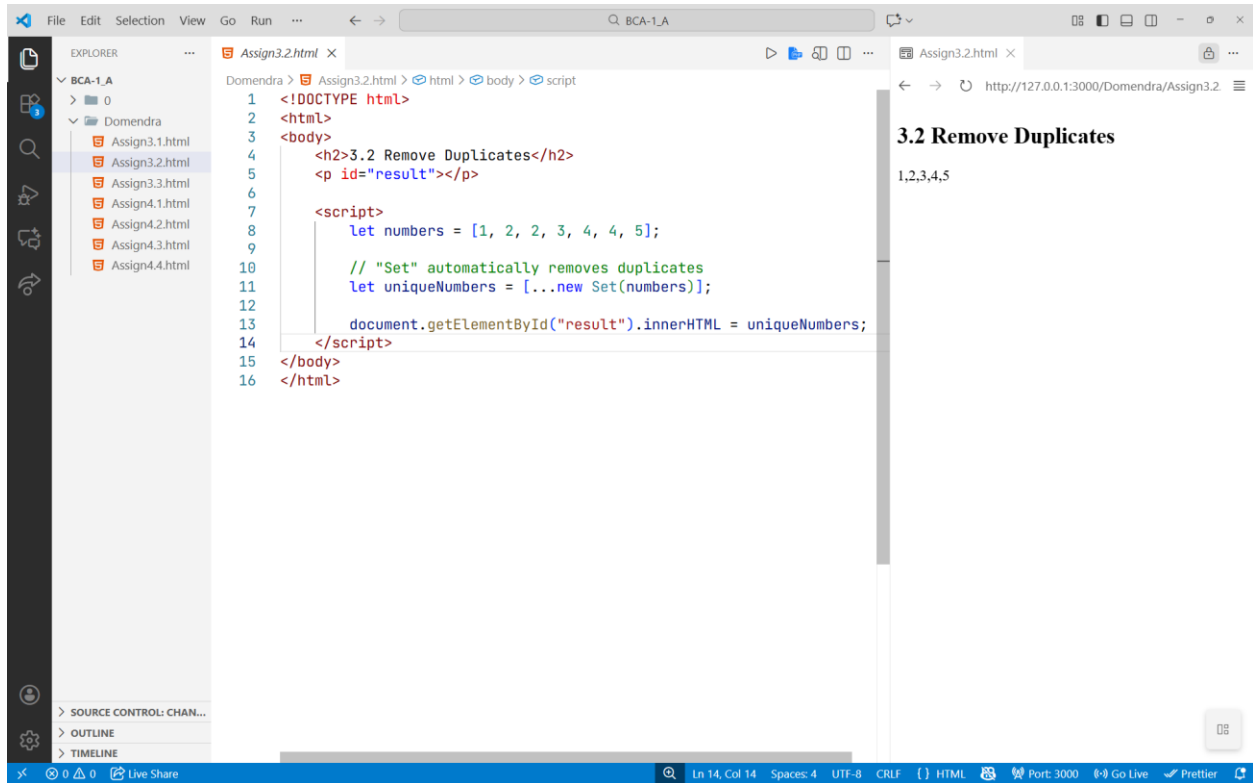
3.1 Count Even and Odd

Even: 3
Odd: 3

The status bar at the bottom indicates the cursor is at line 25, column 8, with 4 spaces, UTF-8 encoding, CRLF line endings, and HTML file type. It also shows 'Port: 3000', 'Go Live' status, and 'Prettier' formatting.

3.2. Remove duplicate values from an array.

Code/Output:



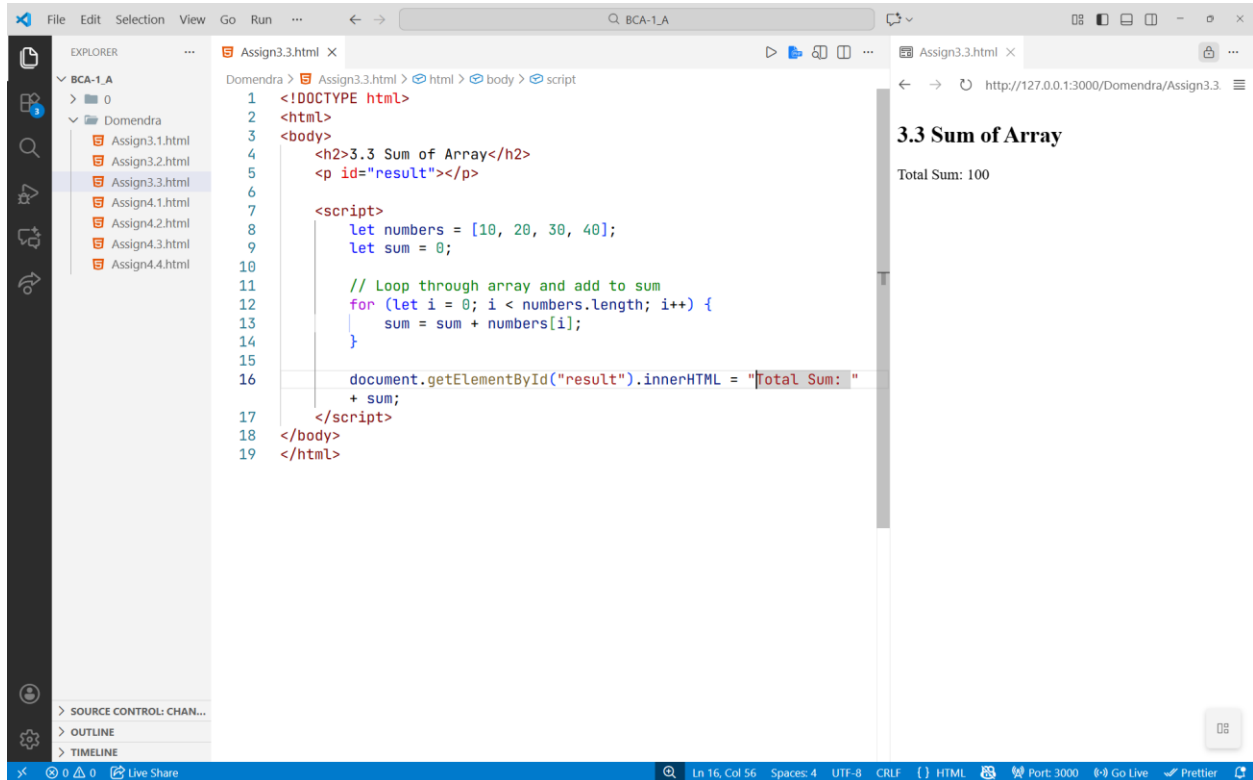
```
1 <!DOCTYPE html>
2 <html>
3 <body>
4   <h2>3.2 Remove Duplicates</h2>
5   <p id="result"></p>
6
7   <script>
8     let numbers = [1, 2, 2, 3, 4, 4, 5];
9
10    // "Set" automatically removes duplicates
11    let uniqueNumbers = [...new Set(numbers)];
12
13    document.getElementById("result").innerHTML = uniqueNumbers;
14  </script>
15 </body>
16 </html>
```

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 the Visual Studio Code editor with the file 'Assign3.3.html' open. The Explorer sidebar on the left shows a project structure with a folder 'Domendra' containing several 'Assign' files. The main editor area displays the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4   <h2>3.3 Sum of Array</h2>
5   <p id="result"></p>
6
7   <script>
8     let numbers = [10, 20, 30, 40];
9     let sum = 0;
10
11     // Loop through array and add to sum
12     for (let i = 0; i < numbers.length; i++) {
13       sum = sum + numbers[i];
14     }
15
16     document.getElementById("result").innerHTML = "Total Sum: "
17     + sum;
18   </script>
19 </body>
20 </html>
```

The live preview on the right shows the rendered HTML output:

3.3 Sum of Array
Total Sum: 100

The status bar at the bottom indicates the file is at line 16, column 56, using UTF-8 encoding and CRLF line endings. It also shows the 'Go Live' button and the 'Prettier' formatter.