Exercise 1: JavaScript Debugging

Issue: The code is checking for "none" and trying to toggle it to "block", but it doesn't consider the initial value.

Debugged Code:

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Toggle Element</title>**

**</head>**

**<body>**

**<button onclick="toggleElement()">Toggle Element</button>**

**<div id="target" style="display: none;">This is the target element.</div>**

**<script>**

**function toggleElement() {**

**var element = document.getElementById("target");**

**if (element.style.display === "" || element.style.display === "none") {**

**element.style.display = "block";**

**} else {**

**element.style.display = "none";**

**}**

**}**

**</script>**

**</body>**

**</html>**

Explaination: To fix this, you should use a different approach to toggle the visibility.

Exercise 2: CSS Troubleshooting

Issue: The issue in the provided CSS code is that the **margin: auto;** rule applied to the **.container** does not effectively center the container.

Debugged Code:

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Centered Container</title>**

**<style>**

**.container {**

**margin: 0 auto; /\* This centers the container horizontally \*/**

**max-width: 600px; /\* Set a maximum width for responsiveness \*/**

**background-color: #f0f0f0;**

**padding: 20px;**

**}**

**</style>**

**</head>**

**<body>**

**<div class="container">**

**<h1>Centered Container</h1>**

**<p>This container should be centered on the page. </p>**

**</div>**

**</body>**

**</html>**

Explaination: To center a block-level element horizontally, you typically use margin: 0 auto; .

Exercise 3: Debugging JavaScript Functions

Issue: There is no issue with the provided code. It calculates the sum of the array correctly.

Result: The code already works correctly and outputs 15.

Exercise 4: Debugging CSS Styling Issues

Issue: The boxes are not correctly aligned, and their text is misaligned.

Debugged Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Styling Debugging Exercise</title>

<style>

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.container {

display: flex;

}

.box {

width: 100px;

height: 100px;

background-color: #007bff;

color: #ffffff;

text-align: center;

line-height: 100px;

margin: 5px;

}

</style>

</head>

<body>

<div class="container">

<div class="box">Box 1</div>

<div class="box">Box 2</div>

<div class="box">Box 3</div>

</div>

</body>

</html>

Explaination: It centers the layout both horizontally and vertically on the page. It also adds a margin between the boxes to achieve the desired layout.