

Exercise 1: JavaScript Debugging

Issue: The code doesn't toggle the visibility of the target element as expected.

Debugged Code:

Corrected 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");

      element.style.display = (element.style.display === "none" || element.style.display === "") ?

"block" : "none";

    }

  </script>

</body>

</html>
```

Explanation:

This corrected code checks if the element's display property is "none" or empty and toggles it accordingly.

Exercise 1: CSS Troubleshooting

Issue: The container is not centered as expected.

Debugged Code:

Corrected Code: Debugged CSS

<style>

```
body {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    margin: 0;  
}
```

```
.container {  
    width: 50%;  
    background-color: #f0f0f0;  
    padding: 20px;  
}
```

</style>

Explanation:

In this corrected code, I used flexbox to center the container both horizontally and vertically.

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.

Corrected Code: Debugged CSS

```
<style>

.container {
    display: flex;
    justify-content: space-around;
    background-color: #f0f0f0;
    padding: 20px;
}

.box {
    width: 100px;
    height: 100px;
    background-color: #007bff;
    color: #ffffff;
    text-align: center;
    line-height: 100px;
    margin: 10px;
}

</style>
```

This corrected code uses flexbox to align the boxes properly and adds a margin for spacing between the boxes.