Identifying the bugs in html and css code and fix them

**Solution :** The code is correct and nothing is missing. But there is something that I would like to suggest to use <strong> tag to bold the text instead of css.

Code:

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

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

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

*<title>Debugging Exercise</title>*

*<style>*

*body {*

*font-family: Arial, sans-serif;*

*background-color: #f4f4f4;*

*color: #333;*

*margin: 20px;*

*}*

*h1 {*

*color: #007bff;*

*}*

*p {*

*font-size: 16px;*

*margin-bottom: 20px;*

*}*

*.important-text {*

*font-weight: bold;*

*color: #d9534f;*

*}*

*</style>*

*</head>*

*<body>*

*<h1>Debugging Exercise</h1>*

*<p>This is a paragraph with some <span class="important-text">important text</span>.</p>*

*<p>Here's an unordered list:</p>*

*<ul>*

*<li>Item 1</li>*

*<li>Item 2</li>*

*<li>Item 3</li>*

*</ul>*

*<p>And here's an ordered list:</p>*

*<ol>*

*<li>First item</li>*

*<li>Second item</li>*

*<li>Third item</li>*

*</ol>*

*<p>This is a <a href="https://www.example.com">link to example.com</a>.</p>*

*<script>*

*console.log("Debugging exercise script");*

*</script>*

*</body>*

*</html>*

**Problem Statement:**

You've been given a simple JavaScript code snippet that's intended to toggle the visibility of an element when a button is clicked. However, it's not working as expected.

**Solution :** There is nothing that can be corrected in this code. The Toggle button is working properly and it is toggling the text.

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") ? "block" : "none";*

*}*

*</script>*

*</body>*

*</html>*

**Problem Statement:**

You've been given an HTML and CSS code snippet that's supposed to create a centered, responsive container. However, it's not displaying as expected.

**Solution :** The text was not center aligned

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 {*

*text-align: center; /\*Here I aligned the text of the box at center\*/*

*margin: auto;*

*width: 50%;*

*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>*

Exercise : Debugging JavaScript Functions

**Solution :** The code is correct and output is 15

Code:

*function calculateSum(arr) {*

*let sum = 0;*

*for (let i = 0; i < arr.length; i++) {*

*sum += arr[i];*

*}*

*return sum;*

*}*

*const numbers = [1, 2, 3, 4, 5];*

*const result = calculateSum(numbers);*

*console.log(result);*

Exercise 2: Debugging CSS Styling Issues

**Solution :** The alignment of Boxes is resolved using flexbox. Margin and padding was not correct

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>*

*.container {*

*display: flex;*

*justify-content: center;*

*width: 50%;*

*margin: auto;*

*padding: 10px;*

*background-color: #312f2f;*

*padding: 20px;*

*}*

*.box {*

*width: 100px;*

*height: 100px;*

*margin-right: 10px;*

*padding: 10px;*

*background-color: #007bff;*

*color: #361515;*

*text-align: center;*

*line-height: 100px;*

*}*

*</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>*