# **1st exercise**

<!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>

</body>

</html>

This code don’t have any errors it works just fine.

**2nd exercise:**

<!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>

This code don’t have any errors it works just fine.

**3rd exercise**

<!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 {

background-color: #f0f0f0;

padding: 20px;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%,-50%);

}

</style>

</head>

<body>

<div class="container">

<h1>Centered Container</h1>

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

</div>

</body>

</html>

Added some CSS alignment to make it center

**4th exercise:**

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

    <script>

    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); // Should output 15

    </script>

</body>

</html>

Given html format to get the output

**5th exercise:**

<!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 {

width: 25%;

margin: 0 auto;

background-color: #f0f0f0;

padding: 20px;

display: grid;

align-items: center;

justify-content: center;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%,-50%);

}

.box {

width: 100px;

height: 100px;

background-color: #007bff;

color: #ffffff;

text-align: center;

line-height: 100px;

margin: 10px;

}

</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>

Given CSS alignment to make the gap between the boxes and to make it center.