**1. HTML Footer Styling**

**Q:**  
Create an HTML page with an <article> and <footer>. Style the footer with a gray background and center-aligned text.

**A:**

<!DOCTYPE html>

<html>

<head>

<style>

footer {

background-color: gray;

text-align: center;

padding: 10px;

}

</style>

</head>

<body>

<article>

<p>This is the article section.</p>

</article>

<footer>

Footer content here

</footer>

</body>

</html>

**2. Even or Odd Checker Function**

**Q:**  
Write a function that takes a number, logs "Even" or "Odd", and returns true for even, false for odd.

**A:**

function isEven(num) {

if (num % 2 === 0) {

console.log("Even");

return true;

} else {

console.log("Odd");

return false;

}

}

**3. Greeting Function**

**Q:**  
Create a function that prints “Hi, how are you?” when called.

**A:**

function greet() {

console.log("Hi, how are you?");

}

greet();

A.3.b.

**Q:**  
Write a function greet that accepts a name as parameter

function greet(name) {

console.log("Hi " + name + ", how are you?");

}

// Example usage:

greet("Ali"); // Output: Hi Ali, how are you?

greet("Sukhmani"); // Output: Hi Sukhmani, how are you?

A.3.c

Write a function greet that accepts a name.

* If the name is provided (not empty), print:  
  **"Hi [name], how are you?"**
* Else, print:  
  **"Hi there, please enter your name!"**

function greet(name) {

if (name) {

console.log("Hi " + name + ", how are you?");

} else {

console.log("Hi there, please enter your name!");

}

}

// Example usage:

greet("Ali"); // Output: Hi Ali, how are you?

greet(""); // Output: Hi there, please enter your name!

greet(null); // Output: Hi there, please enter your name!

**4. Style a Div with CSS**

**Q:**  
Create a page titled “New Site” with a <div id="box">. Apply CSS: width 300px, height 150px, background-color green and background image as well .

**A:**

<!DOCTYPE html>

<html>

<head>

<title>New Site</title>

<style>

#menu {

width: 300px;

height: 150px;

background-color: green;

background-image: url('https://www.w3schools.com/w3images/lights.jpg'); /\* Image URL \*/

background-size: cover;

background-position: center;

border: 2px solid #333;

}

</style>

</head>

<body>

<div id="menu"></div>

</body>

</html>

**5. Divisibility Function**

**Q:**  
Write a JavaScript function that returns true if a number is divisible by both 2 and 4.

**A:**

function isDivisible(num) {

return num % 2 === 0 && num % 4 === 0;

}

**6. Create a Button and Click Handler**

**Q:**  
Create a button that when clicked, changes text in a <p> with ID display to "Button Clicked!".

**A:**

html

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<button onclick="document.getElementById('display').innerHTML = 'Button Clicked!'">Click Me</button>

<p id="display"></p>

**7. Background Change on Mouseover**

**Q:**  
Make a <div> with id hoverBox. When the mouse hovers over it, change background to yellow using JS.

**A:**

<div id="hoverBox" style="width:100px;height:100px;background:gray;"></div>

<script>

document.getElementById('hoverBox').onmouseover = function() {

this.style.backgroundColor = 'yellow';

};

</script>

**8. Create a Styled Navigation Bar**

**Q:**  
Create a horizontal nav bar with 3 links using <nav> and CSS to display them in a row.

**A:**

<nav>

<a href="#">Home</a>

<a href="#">About</a>

<a href="#">Contact</a>

</nav>

<style>

nav a {

margin: 10px;

text-decoration: none;

display: inline-block;

}

</style>

**9. Function to Add Two Numbers**

**Q:**  
Write a function that takes two numbers and returns their sum.

**A:**

function addNumbers(a, b) {

return a + b;

}

**10. Change Page Background via Button**

**Q:**  
Create a button that when clicked changes the background color of the whole page to lightgreen.

**A:**

<button onclick="document.body.style.backgroundColor = 'lightgreen'">Change Background</button>