Q1) Two numbers as parameter and return they're sums

<!DOCTYPE html>

<html>

<head>

<title>Sum Two Numbers</title>

</head>

<body>

<h2>Sum of Two Numbers</h2>

<p id="result"></p>

<script>

function sumTwoNumbers(a, b) {

return a + b;

}

// Example usage

const result = sumTwoNumbers(5, 7);

document.getElementById("result").textContent = "Sum: " + result;

</script>

</body>

</html>

Q2) diff object such as string, math, date.

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Object Examples</title>

</head>

<body>

<h2>JavaScript Built-in Objects</h2>

<!-- String Example -->

<h3>String Example</h3>

<p id="stringResult">Click the button to see string operations.</p>

<button onclick="stringExample()">Run String Code</button>

<!-- Math Example -->

<h3>Math Example</h3>

<p id="mathResult">Click the button to see math operations.</p>

<button onclick="mathExample()">Run Math Code</button>

<!-- Date Example -->

<h3>Date Example</h3>

<p id="dateResult">Click the button to see current date and time.</p>

<button onclick="dateExample()">Run Date Code</button>

<script>

function stringExample() {

let text = "JavaScript";

let result = `Original: ${text}<br>Uppercase: ${text.toUpperCase()}<br>Length: ${text.length}`;

document.getElementById("stringResult").innerHTML = result;

}

function mathExample() {

let num = Math.random() \* 100;

let result = `Random number: ${num.toFixed(2)}<br>Rounded: ${Math.round(num)}<br>PI: ${Math.PI}`;

document.getElementById("mathResult").innerHTML = result;

}

function dateExample() {

let now = new Date();

let result = `Current Date and Time: ${now}<br>Year: ${now.getFullYear()}<br>Hours: ${now.getHours()}`;

document.getElementById("dateResult").innerHTML = result;

}

</script>

</body>

</html>

Q3) Javascript function to change the text of <p> tag when a button is click

<!DOCTYPE html>

<html>

<head>

<title>Change Text Example</title>

</head>

<body>

<p id="myParagraph">Original text</p>

<button onclick="changeText()">Click Me</button>

<script>

function changeText() {

document.getElementById("myParagraph").textContent = "Text has been changed!";

}

</script>

</body>

</html>

Q4) Use Javascript to validate html forms to insure that none filled is not emply before submission

<!DOCTYPE html>

<html>

<body>

<form onsubmit="return validateForm()">

Name: <input type="text" id="name"><br><br>

Email: <input type="email" id="email"><br><br>

<input type="submit" value="Submit">

</form>

<script>

function validateForm() {

let name = document.getElementById("name").value.trim();

let email = document.getElementById("email").value.trim();

if (name === "" || email === "") {

alert("All fields are required!");

return false; // stop form submission

}

return true; // allow submission

}

</script>

</body>

</html>

Q5) Javascript code to on and off bulb [light] on button click.

<!DOCTYPE html>

<html>

<head>

<title>Bulb On/Off</title>

</head>

<body>

<h2>Click the button to turn the bulb on or off</h2>

<img id="bulb" src="https://www.w3schools.com/js/pic\_bulboff.gif" alt="Bulb" style="width:100px;">

<br><br>

<button onclick="toggleBulb()">Toggle Bulb</button>

<script>

let isOn = false;

function toggleBulb() {

const bulb = document.getElementById("bulb");

if (isOn) {

bulb.src = "https://www.w3schools.com/js/pic\_bulboff.gif";

} else {

bulb.src = "https://www.w3schools.com/js/pic\_bulbon.gif";

}

isOn = !isOn;

}

</script>

</body>

</html>