**TASK-----8(A)**

<html>

<head>

<title>Conditional Statements Example</title>

<script>

function findLargerNumber() {

// Prompt user for three integers

const num1 = parseInt(prompt("Enter the first integer:"), 10);

const num2 = parseInt(prompt("Enter the second integer:"), 10);

const num3 = parseInt(prompt("Enter the third integer:"), 10);

let message = "";

// Compare the numbers

if (num1 === num2 && num2 === num3) {

message = "EQUAL NUMBERS";

} else {

const largest = Math.max(num1, num2, num3);

message = `${largest} LARGER NUMBER`;

}

// Display the result

document.getElementById("result").textContent = message;

alert(message);

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

#result {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

}

</style>

</head>

<body>

<header>

<h1>Find the Larger Number</h1>

</header>

<main>

<button onclick="findLargerNumber()">Enter Numbers</button>

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

</main>

<footer>

<p>&copy; 2024 Conditional Statements Example. All rights reserved.</p>

</footer>

</body>

</html>

**TASK-----8(B)**

<html>

<head>

<title>Week Days Display</title>

<script>

function displayWeekDay() {

// Prompt user to enter a number for the day of the week

const dayNumber = parseInt(prompt("Enter a number (1-7) for the day of the week:"), 10);

let dayName = "";

// Determine the day of the week using a switch case

switch (dayNumber) {

case 1:

dayName = "Monday";

break;

case 2:

dayName = "Tuesday";

break;

case 3:

dayName = "Wednesday";

break;

case 4:

dayName = "Thursday";

break;

case 5:

dayName = "Friday";

break;

case 6:

dayName = "Saturday";

break;

case 7:

dayName = "Sunday";

break;

default:

dayName = "Invalid input! Please enter a number between 1 and 7.";

}

// Display the result

document.getElementById("dayResult").textContent = dayName;

alert(dayName);

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

#dayResult {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

}

</style>

</head>

<body>

<header>

<h1>Display Week Days</h1>

</header>

<main>

<button onclick="displayWeekDay()">Enter Day Number</button>

<p id="dayResult">-</p>

</main>

<footer>

<p>&copy; 2024 Week Days Display. All rights reserved.</p>

</footer>

</body>

</html>

**TASK-----8(C)**

<html>

<head>

<title>Loops Example</title>

<script>

function printNumbersUsingFor() {

let result = "";

for (let i = 1; i <= 10; i++) {

result += i + " ";

}

document.getElementById("forLoopResult").textContent = result;

}

function printNumbersUsingWhile() {

let result = "";

let i = 1;

while (i <= 10) {

result += i + " ";

i++;

}

document.getElementById("whileLoopResult").textContent = result;

}

function printNumbersUsingDoWhile() {

let result = "";

let i = 1;

do {

result += i + " ";

i++;

} while (i <= 10);

document.getElementById("doWhileLoopResult").textContent = result;

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

.result {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

}

</style>

</head>

<body>

<header>

<h1>Print Numbers Using Loops</h1>

</header>

<main>

<button onclick="printNumbersUsingFor()">Print Numbers (For Loop)</button>

<p id="forLoopResult" class="result">-</p>

<button onclick="printNumbersUsingWhile()">Print Numbers (While Loop)</button>

<p id="whileLoopResult" class="result">-</p>

<button onclick="printNumbersUsingDoWhile()">Print Numbers (Do-While Loop)</button>

<p id="doWhileLoopResult" class="result">-</p>

</main>

<footer>

<p>&copy; 2024 Loops Example. All rights reserved.</p>

</footer>

</body>

</html>

**TASK-----8(D)**

<html>

<head>

<title>Loops Example</title>

<script>

function printNumbersUsingFor() {

let result = "";

for (let i = 1; i <= 10; i++) {

result += i + " ";

}

document.getElementById("forLoopResult").textContent = result;

}

function printNumbersUsingWhile() {

let result = "";

let i = 1;

while (i <= 10) {

result += i + " ";

i++;

}

document.getElementById("whileLoopResult").textContent = result;

}

function printNumbersUsingDoWhile() {

let result = "";

let i = 1;

do {

result += i + " ";

i++;

} while (i <= 10);

document.getElementById("doWhileLoopResult").textContent = result;

}

function printObjectData() {

const person = {

name: "John Doe",

age: 30,

profession: "Developer"

};

// Using for-in loop

let forInResult = "";

for (let key in person) {

forInResult += `${key}: ${person[key]}\n`;

}

// Using Object.keys() with forEach

let forEachResult = "";

Object.keys(person).forEach(key => {

forEachResult += `${key}: ${person[key]}\n`;

});

// Using for-of with Object.entries()

let forOfResult = "";

for (let [key, value] of Object.entries(person)) {

forOfResult += `${key}: ${value}\n`;

}

// Display results

document.getElementById("forInLoopResult").textContent = forInResult;

document.getElementById("forEachLoopResult").textContent = forEachResult;

document.getElementById("forOfLoopResult").textContent = forOfResult;

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

.result {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

white-space: pre-line;

}

</style>

</head>

<body>

<header>

<h1>Print Numbers and Object Data Using Loops</h1>

</header>

<main>

<button onclick="printNumbersUsingFor()">Print Numbers (For Loop)</button>

<p id="forLoopResult" class="result">-</p>

<button onclick="printNumbersUsingWhile()">Print Numbers (While Loop)</button>

<p id="whileLoopResult" class="result">-</p>

<button onclick="printNumbersUsingDoWhile()">Print Numbers (Do-While Loop)</button>

<p id="doWhileLoopResult" class="result">-</p>

<button onclick="printObjectData()">Print Object Data</button>

<p id="forInLoopResult" class="result">-</p>

<p id="forEachLoopResult" class="result">-</p>

<p id="forOfLoopResult" class="result">-</p>

</main>

<footer>

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</footer>

</body>

</html>

**TASK-----8(E)**

<html>

<head>

<title>Armstrong Number Checker</title>

<script>

function isArmstrongNumber() {

// Prompt user for a number

const num = parseInt(prompt("Enter a number to check if it is an Armstrong number:"), 10);

if (isNaN(num)) {

alert("Please enter a valid number.");

return;

}

let sum = 0;

const digits = num.toString().split("").map(Number);

// Calculate the sum of the cubes of its digits

for (let digit of digits) {

sum += Math.pow(digit, 3);

}

// Check if the number is an Armstrong number

const result = (sum === num)

? `${num} is an Armstrong number.`

: `${num} is not an Armstrong number.`;

document.getElementById("armstrongResult").textContent = result;

alert(result);

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

.result {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

}

</style>

</head>

<body>

<header>

<h1>Armstrong Number Checker</h1>

</header>

<main>

<button onclick="isArmstrongNumber()">Check Armstrong Number</button>

<p id="armstrongResult" class="result">-</p>

</main>

<footer>

<p>&copy; 2024 Armstrong Number Checker. All rights reserved.</p>

</footer>

</body>

</html>

**TASK-----8(F)**

<html>

<head>

<title>Denomination Calculator</title>

<script>

function calculateDenominations() {

// Prompt user for an amount

const amount = parseInt(prompt("Enter the amount deposited in the bank:"), 10);

if (isNaN(amount) || amount <= 0) {

alert("Please enter a valid positive amount.");

return;

}

const denominations = [100, 50, 20, 10, 5, 2, 1];

let remainingAmount = amount;

let result = "";

denominations.forEach(denomination => {

const count = Math.floor(remainingAmount / denomination);

if (count > 0) {

result += `${count} x Rs.${denomination}\n`;

remainingAmount %= denomination;

}

});

// Display the result

document.getElementById("denominationResult").textContent = result;

alert(result.replace(/\n/g, "\n"));

}

</script>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

line-height: 1.6;

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

margin-top: 20px;

}

.result {

margin-top: 20px;

font-size: 18px;

font-weight: bold;

white-space: pre-line;

}

</style>

</head>

<body>

<header>

<h1>Denomination Calculator</h1>

</header>

<main>

<button onclick="calculateDenominations()">Calculate Denominations</button>

<p id="denominationResult" class="result">-</p>

</main>

<footer>

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</footer>

</body>

</html>