Assignment 5

Q.Develop and demonstrate JavaScript with POP-UP boxes and functions for the following problems:

a) Input: Click on Display Date button using onclick() function

Output: Display date in the textbox

b) Input: A number n obtained using prompt

Output: Factorial of n number using alert

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>JavaScript Pop-Up Boxes</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #e9ecef; /\* Light gray background \*/

text-align: center; /\* Center text in the body \*/

}

h1 {

color: #007BFF;

margin-bottom: 10px;

}

h2 {

color: #FF0000;

margin-bottom: 20px;

}

.box {

background-color: #ffffff;

border: 1px solid #ccc;

border-radius: 10px;

padding: 20px;

margin: 20px auto;

max-width: 400px;

box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);

}

button {

padding: 10px 15px;

margin: 5px;

cursor: pointer;

background-color: #444;

color: white;

border: none;

border-radius: 5px;

transition: background-color 0.3s ease;

font-size: 16px;

box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);

}

button:hover {

background-color: #218838;

}

input[type="text"] {

padding: 10px;

margin: 5px;

width: 100%;

text-align: center;

border: 1px solid #ccc;

border-radius: 5px;

font-size: 16px;

transition: border-color 0.3s ease;

}

input[type="text"]:focus {

border-color: #007BFF;

outline: none;

}

.footer {

margin-top: 20px;

color: #6c757d;

}

@media (max-width: 600px) {

.box {

width: 90%;

}

}

</style>

<script>

function displayDate() {

const currentDate = new Date();

document.getElementById("dateTextbox").value = currentDate.toLocaleString();

}

function calculateFactorial() {

const n = prompt("Please enter a non-negative integer to calculate its factorial:");

if (n === null || n.trim() === "") {

alert("No number entered.");

return;

}

const number = parseInt(n);

if (isNaN(number) || number < 0) {

alert("Please enter a valid non-negative integer.");

return;

}

const factorial = factorialOf(number);

alert(`The factorial of ${number} is ${factorial}.`);

}

function factorialOf(num) {

let result = 1;

for (let i = 2; i <= num; i++) {

result \*= i;

}

return result;

}

</script>

</head>

<body>

<h1>Assignment No 5</h1>

<h2>JavaScript Pop-Up Box</h2>

<div class="box">

<h3>Display Date</h3>

<button onclick="displayDate()">Display Date</button>

<input type="text" id="dateTextbox" placeholder="Date will be displayed here" readonly>

</div>

<div class="box">

<h3>Calculate Factorial</h3>

<button onclick="calculateFactorial()">Calculate Factorial</button>

</div>

<div class="footer">

</div>

</body>

</html>