<!DOCTYPE html>

<html>

<head>

<title>Factorial Calculator</title>

<script>

function calculateFactorial() {

// Get user input using prompt

var userInput = prompt('Enter a number:');

// Send the user input to the server-side PHP script

window.location.href = 'factorial.php?number=' + userInput;

}

</script>

</head>

<body>

<h1>Factorial Calculator</h1>

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

<?php

// Check if the number parameter is set in the URL

if (isset($\_GET['number'])) {

// Retrieve the number from the URL

$number = $\_GET['number'];

// Validate that the input is a non-negative integer

if (is\_numeric($number) && $number >= 0 && floor($number) == $number) {

// Calculate factorial using a recursive function

$factorial = calculateFactorial($number);

echo "<p style='text-align: center;'>Factorial of $number is: $factorial</p>";

} else {

echo '<p style="color: red; text-align: center;">Please enter a valid non-negative integer.</p>';

}

}

// Recursive function to calculate factorial

function calculateFactorial($n) {

if ($n <= 1) {

return 1;

} else {

return $n \* calculateFactorial($n - 1);

}

}

?>

</body>

</html>