Assignment 8

Q. Write a program to check the input number is palindrome or not and sum of the digits of number?

<!DOCTYPE html>

<html lang="en">

<head>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

margin: 0;

padding: 0;

}

.container {

max-width: 400px;

margin: 80px auto;

background: white;

padding: 20px;

border-radius: 8px;

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

}

h1 {

text-align: center;

color: #333;

}

form {

display: flex;

flex-direction: column;

}

label {

margin-bottom: 8px;

font-weight: bold;

}

input[type="number"] {

padding: 10px;

font-size: 16px;

margin-bottom: 20px;

border: 1px solid #ccc;

border-radius: 4px;

}

button {

padding: 10px;

font-size: 16px;

background-color: #007bff;

color: white;

border: none;

border-radius: 4px;

cursor: pointer;

}

button:hover {

background-color: #0056b3;

}

.error {

color: red;

font-weight: bold;

}

</style>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<title>Palindrome and Sum of Digits</title>

</head>

<body>

<div class="container">

<h1>Check Palindrome and Sum of Digits</h1>

<?php

function is\_palindrome($num) {

$str = strval($num);

return $str === strrev($str);

}

function sum\_of\_digits($num) {

$sum = 0;

$digits = str\_split(strval($num));

foreach ($digits as $digit) {

$sum += intval($digit);

}

return $sum;

}

$error = $palindrome\_result = $sum\_result = "";

$number = "";

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

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

if (!is\_numeric($number)) {

$error = "Please enter a valid number.";

} else {

$palindrome\_result = is\_palindrome($number) ? "Yes, it is a palindrome." : "No, it is not a palindrome.";

$sum\_result = sum\_of\_digits($number);

}

}

?>

<?php if ($\_SERVER["REQUEST\_METHOD"] == "POST" && !empty($error)): ?>

<p class="error"><?php echo htmlspecialchars($error); ?></p>

<?php elseif ($\_SERVER["REQUEST\_METHOD"] == "POST"): ?>

<p>Is the number <strong><?php echo htmlspecialchars($number); ?></strong> a palindrome? <strong><?php echo $palindrome\_result; ?></strong></p>

<p>Sum of all digits: <strong><?php echo $sum\_result; ?></strong></p>

<a href="">Try another number</a>

<?php else: ?>

<form action="" method="post">

<label for="number">Enter a number:</label>

<input type="number" id="number" name="number" required />

<button type="submit">Submit</button>

</form>

<?php endif; ?>

</div>

</body>

</html>