1.

<!DOCTYPE html>

<html>

<head>

<title>Mathematical Operations</title>

</head>

<body>

<script>

// Define variables x and y and assign them values

var x = 6; var y = 4;

// Calculate and display the sum var sum = x + y; console.log("Sum: " + sum);

// Calculate and display the difference var difference = x - y; console.log("Difference: " + difference);

// Calculate and display the product var product = x \* y; console.log("Product: " + product); // Calculate and display the division

var division = x / y; console.log("Division: " + division);

</script>

</body>

</html>

2.

<!DOCTYPE html>

<html>

<head>

<title>Count from 5 to 15</title>

</head>

<body>

<?php

// Using a for loop to display numbers from 5 to 15

for ($i = 5; $i <= 15; $i++) { echo $i . "<br>";

}

?>

</body>

</html>

3.

<!DOCTYPE html>

<html>

<head>

<title>Electricity Bill Calculation</title>

</head>

<body>

<h2>Electricity Bill Calculator</h2>

<form method="post">

<label>Enter the number of units consumed:</label>

<input type="number" name="units" required>

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

</form>

<?php

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

// Get the number of units consumed from the form

$units = $\_POST["units"];

// Initialize the variable to store the total bill amount

$totalBill = 0;

// Calculate the electricity bill based on the given conditions

if ($units <= 50) {

$totalBill = $units \* 3.50;

} elseif ($units <= 100) {

$totalBill = 50 \* 3.50 + ($units - 50) \* 4.00;

} elseif ($units <= 150) {

$totalBill = 50 \* 3.50 + 50 \* 4.00 + ($units - 100) \* 5.20;

} else {

$totalBill = 50 \* 3.50 + 50 \* 4.00 + 50 \* 5.20 + ($units - 150) \* 6.50;

}

// Display the total electricity bill echo "<p>Total Electricity Bill: Rs. " . number\_format($totalBill, 2) . "</p>";

}

?>

</body>

</html>

4.

<!DOCTYPE html>

<html>

<head>

<title>Day of the Week</title>

</head>

<body>

<form method="post">

<label>Enter a number from 1 to 7:</label>

<input type="number" name="dayNumber" min="1" max="7" required>

<input type="submit" value="Show Day">

</form>

<?php

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

// Get the day number from the form

$dayNumber = $\_POST["dayNumber"];

// Initialize a variable to store the day name

$dayName = "";

// Use switch/case to determine the day name based on the number 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 number";

}

// Display the day name to the user echo "<p>Day of the Week: " . $dayName . "</p>";

}

?>

</body>

</html>

5.

<!DOCTYPE html>

<html>

<head>

<title>Fruits Array</title>

</head> <body>

<?php

// Create the 'fruits' array

$fruits = array("Apple", "Banana", "Stawberry", "Pineapple", "Mango");

// Use a foreach loop to print each element of the array foreach ($fruits as $fruit) { echo $fruit . "<br>";

}

?>

</body>

</html>