# **HomeWork-5**

# **Register Number and Name (Input and Output on Two Pages)**

registerForm.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Register Form</title></head>  
<body>  
<form action="displayRegister.php" method="post">  
 Register Number: <input type="text" name="regno" required><br><br>  
 Name: <input type="text" name="name" required><br><br>  
 <input type="submit" value="Submit">  
</form>  
</body>  
</html>  
  
displayRegister.php  
  
<?php  
$regno = $\_POST["regno"];  
$name = $\_POST["name"];  
?>  
<h2>Submitted Information:</h2>  
<p>Register Number: <?php echo $regno; ?></p>  
<p>Name: <?php echo $name; ?></p>

# **Greeting Message Based on Username**

greeting.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Greeting</title></head>  
<body>  
<form method="post">  
 Username: <input type="text" name="username" required><br><br>  
 Password: <input type="password" name="password" required><br><br>  
 <input type="submit" value="Login">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $username = $\_POST["username"];  
 echo "<h3>Welcome, $username!</h3>";  
}  
?>  
</body>  
</html>

# **Login Check (Success or Failure Message)**

login.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Login</title></head>  
<body>  
<form method="post">  
 Username: <input type="text" name="username" required><br><br>  
 Password: <input type="password" name="password" required><br><br>  
 <input type="submit" value="Login">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $username = $\_POST["username"];  
 $password = $\_POST["password"];  
 if ($username === "admin" && $password === "1234") {  
 echo "<p style='color:green;'>Login successful. Welcome, $username!</p>";  
 } else {  
 echo "<p style='color:red;'>Login failed. Invalid credentials.</p>";  
 }  
}  
?>  
</body>  
</html>

# **Addition of Two Numbers (Two Pages)**

addForm.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Add Numbers</title></head>  
<body>  
<form action="addResult.php" method="post">  
 Number 1: <input type="number" name="number1" required><br><br>  
 Number 2: <input type="number" name="number2" required><br><br>  
 <input type="submit" value="Calculate">  
</form>  
</body>  
</html>  
  
addResult.php  
  
<?php  
$num1 = $\_POST["number1"];  
$num2 = $\_POST["number2"];  
$sum = $num1 + $num2;  
echo "<h2>Result: $num1 + $num2 = $sum</h2>";  
?>

# **Armstrong Number**

armstrong.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Armstrong Check</title></head>  
<body>  
<form method="post">  
 Enter a number: <input type="number" name="num" required>  
 <input type="submit" value="Check">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $num = $\_POST["num"];  
 $sum = 0;  
 $temp = $num;  
 while ($temp != 0) {  
 $digit = $temp % 10;  
 $sum += $digit \*\* 3;  
 $temp = intval($temp / 10);  
 }  
 if ($sum == $num)  
 echo "$num is an Armstrong number.";  
 else  
 echo "$num is not an Armstrong number.";  
}  
?>  
</body>  
</html>

# **Factorial**

factorial.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Factorial</title></head>  
<body>  
<form method="post">  
 Enter a number: <input type="number" name="num" required>  
 <input type="submit" value="Calculate">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $n = $\_POST["num"];  
 $fact = 1;  
 for ($i = 1; $i <= $n; $i++) {  
 $fact \*= $i;  
 }  
 echo "Factorial of $n is $fact";  
}  
?>  
</body>  
</html>

# **Palindrome Check**

palindrome.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Palindrome</title></head>  
<body>  
<form method="post">  
 Enter a number: <input type="number" name="num" required>  
 <input type="submit" value="Check">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $num = $\_POST["num"];  
 $rev = strrev($num);  
 if ($num == $rev)  
 echo "$num is a palindrome.";  
 else  
 echo "$num is not a palindrome.";  
}  
?>  
</body>  
</html>

# **Power Calculation**

power.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Power Calculator</title></head>  
<body>  
<form method="post">  
 Base: <input type="number" name="base" required><br><br>  
 Exponent: <input type="number" name="exp" required><br><br>  
 <input type="submit" value="Calculate Power">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $base = $\_POST["base"];  
 $exp = $\_POST["exp"];  
 $result = pow($base, $exp);  
 echo "$base ^ $exp = $result";  
}  
?>  
</body>  
</html>

# **Perfect Number**

perfect.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Perfect Number</title></head>  
<body>  
<form method="post">  
 Enter a number: <input type="number" name="num" required>  
 <input type="submit" value="Check">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $num = $\_POST["num"];  
 $sum = 0;  
 for ($i = 1; $i < $num; $i++) {  
 if ($num % $i == 0) $sum += $i;  
 }  
 if ($sum == $num)  
 echo "$num is a perfect number.";  
 else  
 echo "$num is not a perfect number.";  
}  
?>  
</body>  
</html>

# **Sum of Digits**

sumDigits.php  
  
<!DOCTYPE html>  
<html>  
<head><title>Sum of Digits</title></head>  
<body>  
<form method="post">  
 Enter a number: <input type="number" name="num" required>  
 <input type="submit" value="Calculate">  
</form>  
  
<?php  
if ($\_SERVER["REQUEST\_METHOD"] == "POST") {  
 $num = $\_POST["num"];  
 $sum = 0;  
 while ($num > 0) {  
 $sum += $num % 10;  
 $num = intval($num / 10);  
 }  
 echo "Sum of digits is $sum";  
}  
?>  
</body>  
</html>