Lab Session 5: Introduction to PHP (with EasyPHP)

1. Install **EasyPHP**.
2. Store your PHP files in the sub-directory /www.
3. ****Access your scripts via: <http://localhost/yourfilename.php>.
4. **Create a file named** php0.php:

**Exercise 1: Hello World (Basic PHP Syntax)**

**Create a file named** php1.php:

**<?php**

**echo "This is my first PHP message."; // A simple test**

**echo "Test successful!";**

**?>**

**Create a second file named** php2.php:

**<?php**

**function helloWorld() {**

 **return "Hi world";**

**}**

**echo helloWorld();**

**?>**

**Exercise 2: Variables and Display**

**<?php**

**$visitor\_age = 17;**

**$visitor\_name = "Mohammed";**

**$visitor\_name = 'Reda'; // overwritten**

**echo "The visitor is $visitor\_age years old.";**

**?>**

**Task:**Save this code as .html, then as .php. What do you observe?

**Exercise 3: Data Types and Validation**

**Exercise 4: Conditional Structures**

**<?php**

**if ($x > 10) {**

 **// A**

**} elseif ($x > 5 && $x < 10) {**

 **// B**

**} elseif ($x == 5 || $x == 3) {**

 **// C**

**} else {**

 **// D**

**}**

**?>**

**Check if input is numeric:**

**<?php**

**$input = "abc";**

**if (is\_nan($input)) {**

 **echo "The input is not a number.";**

**} else {**

 **echo "The input is a number.";**

**}**

**?>**

**Bonus:** Create a password check where the user has **3 attempts**.

**Exercise 5: Loops**

**Exercise 6: Functions**

**<?php**

**function greet($name) {**

 **echo "This is a test function by: $name <br />";**

**}**

**greet("Ahmed");**

**function sum($a, $b) {**

 **return $a + $b;**

**}**

**$total = sum(3, 10);**

**echo $total;**

**?>**

**<?php**

**for($i = 0; $i < 5; $i++) {**

 **echo $i;**

**}**

**$i = 0;**

**while($i < 5) {**

 **echo $i;**

 **$i++;**

**}**

**$i = 0;**

**do {**

 **echo $i;**

 **$i++;**

**} while($i < 5);**

**?>**

**Exercise 7: GET and POST Methods**

**form.html**

**<form method="post" action="form.php">**

 **Name: <input type="text" name="name"><br>**

 **Age: <input type="text" name="age"><br>**

 **<input type="submit" value="Submit">**

**</form>**

**form.php**

**<?php**

**if (!empty($\_POST['name']) && !empty($\_POST['age'])) {**

 **echo "Hello " . $\_POST['name'] . ", age: " . $\_POST['age'];**

**} else {**

 **echo "Fields cannot be empty.";**

**}**

**?>**

### ****Exercise 8: Simple Login Form****

Create a login form and use PHP to check the entered username and password.

### ****Exercise 9: Basic Contact Form****

Create a simple contact form that collects a name, email, and message, then displays the submitted data.

**Additional Challenges**

1. Build a calculator using POST that performs addition, subtraction, multiplication, or division.
2. Display the current date and time dynamically using PHP.
3. Make a mini guestbook: users submit their name and a message (display immediately, no DB).
4. Use CSS to style your PHP output (basic layout and colors).
5. Explore PHP sessions: save a user's name and greet them on return.