



Information Technology Program
Faculty of Engineering
Udayana University

Web Programming: **PHP & MySQL**

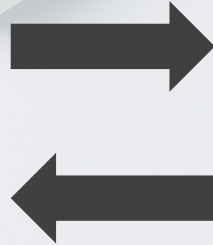
by: I Putu Arya Dharmadi, S.T., M.T.



Client Side



Server Side





What is PHP?

“a server scripting language
for making **dynamic** Web
pages and **processing**
information in a server”

```
<!DOCTYPE html>
<html>
  <head>
    <title>Latihan</title>
  </head>
  <body>
    <h1>
      <?php
        $myname = "Arya Dharmaadi";
        echo "Hello " . $myname;
      ?>
    </h1>
  </body>
</html>
```





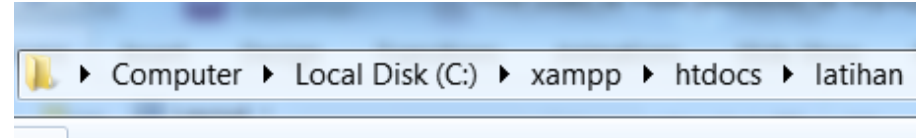
Starting PHP



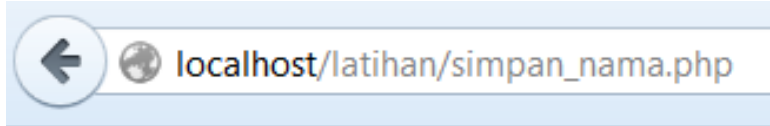
Best Practice to **Start PHP**



1. Install XAMPP



2. Create a new folder project in xampp > htdocs



Haloo Arya Dharmaadi

Hobimu adalah **Renang**

Terima kasih

3. Open a browser and type
http://localhost/foldernama/file-
name





PHP Features



What Need You **Know** about PHP?



- an acronym for "**PHP: Hypertext Preprocessor**"
- widely-used, **open source** scripting language
- PHP files can contain **text, HTML, CSS, JavaScript**, and **PHP code**
- PHP code is **executed on the server**,
and **the result** is returned to the browser as **plain HTML**



Some Often Used **PHP Functions**



```
<?php
    $myname = "Arya Dharmaadi";
    echo "Hello " . $myname;
    echo strlen("Hello world!"); // outputs 12
    echo str_word_count($myname); // outputs 2
    echo strpos("Hello world!", "world"); // outputs 6
?>
```



Array



```
<?php
    $cars = array("Volvo", "BMW", "Toyota");
    echo "I like " . $cars[0] . " and " . $cars[2];
    echo count($cars);

    $age['Peter'] = "35";
    $age['Ben'] = "37";
    $age['Joe'] = "43";
    echo "Peter is " . $age['Peter'] . " years old.";
?>
```



Function



```
<?php
    function familyName($fname, $year) {
        echo "$fname Refsnes. Born in $year <br>";
    }

    familyName("Hege", "1975");
    familyName("Stale", "1978");
    familyName("Kai Jim", "1983");
?>
```



Object Oriented

```
<?php
```

```
class Fruit {  
    // Properties  
    public $name;  
    public $color;  
  
    // Methods  
    function set_name($name) {  
        $this->name = $name;  
    }  
    function get_name() {  
        return $this->name;  
    }  
    function print_name() {  
        echo $this->name;  
    }  
}  
  
$apple = new Fruit();  
$banana = new Fruit();  
$apple->set_name('Apple');  
$banana->set_name('Banana');  
  
echo $apple->get_name();  
echo "<br>";  
$banana->print_name();
```

```
?>
```



Include / **Require** File



- **Takes** all the text/code/markup that exists in the specified file and **copies** it into the file that uses the include/require statement.
- If the file is not found:
 - **require** will produce a **fatal error**
 - **include** will only produce a **warning**



Include / **Require** File (2)

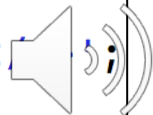


menu.php

```
<?php
    echo '
        <a href="/default.asp">Home</a> -
        <a href="/html/default.asp">HTML Tutorial</a> -
        <a href="/css/default.asp">CSS Tutorial</a>
    ';
?>
```

halaman_utama.php

```
<div class="menu">
    <?php
        require 'menu.php';
        echo '<a href="default.asp">PHP Tutorial<';
    ?>
</div>
```



Example of PHP Main Page



```
...  
<body>  
    <?php  
        require "my_table.php";  
  
        $obj_my_table = new MyTable();  
  
        $obj_my_table -> createTable();  
    ?>  
</body>  
...
```





PHP & HTML Form



Input Data into PHP



- Use HTML form to input data into PHP
- Users fill data on an HTML Form, then we create a PHP file to receive and process the data



Input Data Example



File: input_nama.html

```
<html>
<head>
  <title>My Form</title>
</head>
<body>
  <form action="simpan_nama.php" method="post">
    Nama : <input type="text" name="namaku"><br>
    Hobi : <input type="text" name="hobi"><br>
    <input type="submit" name="submit" value="Kirim">
  </form>
</body>
</html>
```



File:
simpan_nama
.php

```
<html>
<head>
  <title>Lihat Hasil</title>
</head>
<body>
  <?php
    $namaku = $_POST['namaku'] ;
    $hobi = $_POST['hobi'] ;
  ?>
  <p>
    Haloo <?php echo $namaku; ?>
  </p>
  <p>
    Hobimu adalah <b> <?php echo $hobi; ?> </b>
  </p>
  <p>Terima kasih</p>
</body>
</html>
```





PHP & MySQL

How to insert data into database



Database **Preparation**



- Make sure your MySQL database is running
- Assumed that you created database with name “Latihan”
- Create a table with name “Registrasi” with 2 fields, those are “nama” and “hobi”



1. Create Database Connection



File name: database_connection.php

```
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $dbname = "latihan";
6
7      // Create connection
8      $conn = new mysqli($servername, $username, $password, $dbname);
9
10     // Check connection
11     if ($conn->connect_error) {
12         die("Connection failed: " . $conn->connect_error);
13     }
14     ?>
```



2. Insert the Data into Prepared Statement



File name: simpan_registrasi.php

```
1  <?php
2      require "database_connection.php";
3
4      $namaku = $_POST['namaku'];
5      $hobi = $_POST['hobi'];
6
7      // prepare and bind
8      $stmt = $conn->prepare("INSERT INTO registrasi (nama, hobi) VALUES (?, ?)");
9      $stmt->bind_param("ss", $namaku, $hobi);
10
11     $stmt->execute();
12
13     echo "New records created successfully";
14     echo '<br><button onclick="history.go(-1);">Kembali </button>';
15
16     $stmt->close();
17     $conn->close();
18  ?>
```



3. Set the HTML Form **Action** to the **PHP file**



File name: input_nama.html

```
<html>
<head>
  <title>My Form</title>
</head>
<body>
  simpan_registrasi.php
  <form action="simpan_nama.php" method="post">
    Nama : <input type="text" name="namaku"><br>
    Hobi : <input type="text" name="hobi"><br>
    <input type="submit" name="submit" value="Kirim">
  </form>
</body>
</html>
```



NOTE!



- Make sure all web files, such as HTML, Javascript, CSS, and PHP are saved in same directory in htdocs



Discussion



Any Question?



REFERENCES

