

PHP

Dr.Mohammed Abdulridha Hussain

Introduction

- ▶ Interactive Web pages are created with both client-side and server-side scripting. Server-side scripting uses information sent by clients, information stored on the server, information stored in the server's memory, and information from the Internet to dynamically create Web pages.
- ▶ PHP is quickly becoming one of the most popular server-side scripting languages for creating dynamic Web pages. PHP is an *open-source* technology that is supported by a large community of users and developers. PHP is platform independent; implementations exist for all major UNIX, LINUX, and Windows operating systems.

Introduction

- ▶ PHP also provides support for a large number of databases, including MySQL. When a client requests a PHP document, the document is loaded into memory and parsed (top to bottom) by a scripting engine. Script code is interpreted as it is encountered.
- ▶ In PHP, code is inserted between the scripting delimiters `<?php` and `?>`

Example 1

```
<html>  
<body>  
<?php  
$name = "Mohammed";  
echo $name;  
?>  
</body>  
</html>
```

Variables and Arithmetic Expressions

- ▶ Variables in PHP without declaration. The name of variable can be any valid *identifier* begins with a dollar sign (\$). Also, PHP has the following arithmetic and logical operators.
- ▶ Arithmetic: +, -, *, /, %
- ▶ Logical: <, >, <=, >=, ==, !=
- ▶ Assignment: =
- ▶ `count++;`
- ▶ `count--;`

String Concatenation

The (.) operand is used to add strings together

- ▶ `echo $weight. ' Kg
';`
- ▶ `echo $weight. " Kg
";`
- ▶ `echo "$weight Kg
";`

Page 1

```
<?php
$name="Ali";
$name2="Mohammed";
echo $name;
echo "<br><br>";
echo $name." ".$name2."<br><br>";
echo '$name $name2';
echo "<br><br>";
echo "$name $name2";
echo "<h2 align= \"center\"
style= \"color:red;\">$name $name2</h2>";
?>
```

Form processing

- ▶ To retrieve any data from the HTML
 - 1) The Method of the form (GET, POST)
 - 2) Name of the tool used

```
$_GET['n1'];          $_POST['n1'];
```

- ▶ Testing Variable Status

```
int isset(mixed var);  
int unset(mixed var);  
int empty(mixed var);
```

Example:

```
<?php  
$na=$_POST['t1'];  
echo $na;
```

```
?>
```

Control Structures

```
if (condition1)
{
    Statements 1;
}
elseif (condition2)
{
    Statements 2;
}
else
{
    Statements 3;
}
```

```
switch(exp)
{
case const1:
    statements 1;
    break;
case const2:
    statements 2;
    break;
case const3:
    statements 3;
    break;
default :
    statements_default;
}
```

Example

Name:

Age:

Gender: Male Female

Program Skills: HTML Javascript PHP

Country:

Iraq
China
Egypt

Page3

```
<form action="page4.php">
Name: <input type="text" name="t1" > <br><br>
Age: <input type="number" name="t2" > <br><br>
Gender: <input type="radio" name="t3" value="M"> Male
<input type="radio" name="t3" value="F"> Female <br><br>
Program Skills: <input type="checkbox" name="t4" value="1"> HTML
<input type="checkbox" name="t5" value="2"> Javascript
<input type="checkbox" name="t6" value="3"> PHP <br><br>
Country: <select name="s1">
<option value="I"> Iraq </option>
<option value="C"> China </option>
<option value="E"> Egypt </option>
</select><br><br>
<input type="submit" value="send">
</form>
```

Page4

```
<?php
echo $_GET['t1']."<br>";
echo $_GET['t2']."<br>";
$t3=$_GET['t3'];
if($t3=="M")
    echo "Male <br>";
elseif($t3=="F")
    echo "Female <br>";
echo "program Skills: ";
if (isset($_GET['t4']))
    echo "HTML, ";
if (isset($_GET['t5']))
    echo "JavaScript, ";
if (isset($_GET['t6']))
    echo "PHP <br>";
```

```
$s1=$_GET['s1'];
switch ($s1)
{
    case "I":
        echo "Iraq <br>";
        break;
    case "C":
        echo "China <br>";
        break;
    case "E":
        echo "Egypt <br>";
        break;
}
?>
```

Execution: Running XAMPP

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache			Start Admin Config Logs
<input type="checkbox"/>	MySQL			Start Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

5:42:52 PM [Tomcat] Run this program from your XAMPP root directory!
5:42:52 PM [main] Starting Check-Timer
5:42:52 PM [main] Control Panel Ready
5:56:46 PM [Apache] Attempting to start Apache app...
5:56:46 PM [Apache] Status change detected: running
6:15:31 PM [Apache] Attempting to stop Apache (PID: 9340)
6:15:31 PM [Apache] Attempting to stop Apache (PID: 1540)
6:15:31 PM [Apache] Status change detected: stopped

anel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Service	PID(s)	Port(s)	Actions
<input checked="" type="checkbox"/>	Apache 9340 1540	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL		Start Admin Config Logs
<input type="checkbox"/>	FileZilla		Start Admin Config Logs
<input type="checkbox"/>	Mercury		Start Admin Config Logs
<input type="checkbox"/>	Tomcat		Start Admin Config Logs

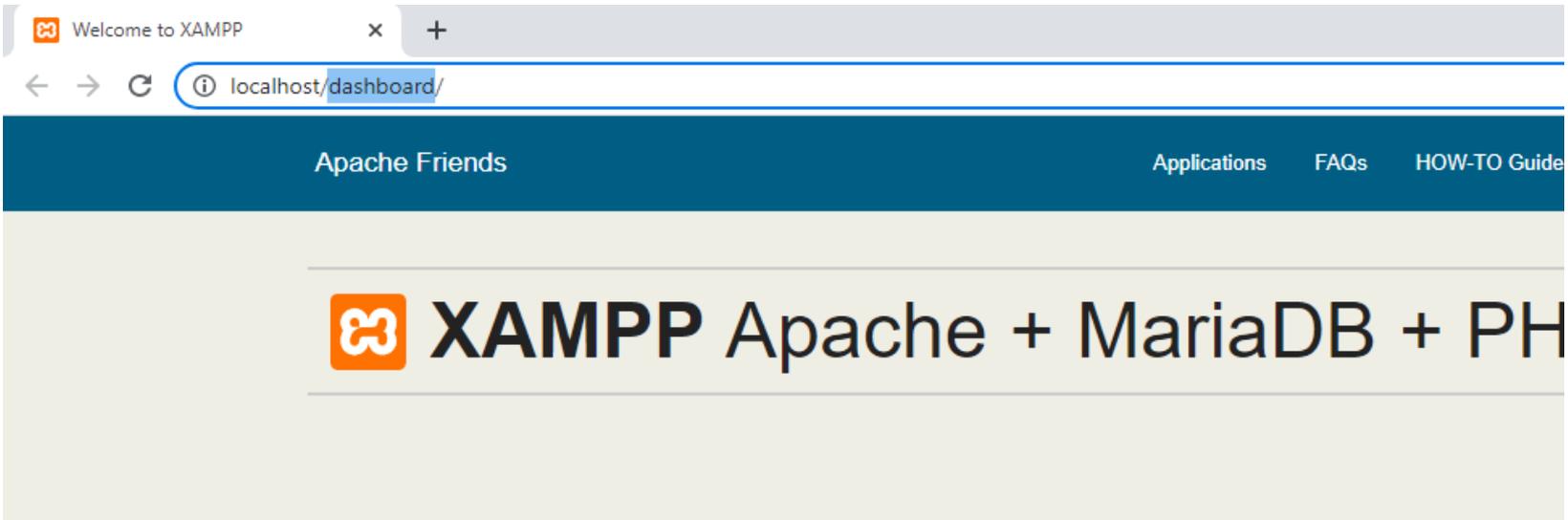
5:42:52 PM [main] Initializing Modules
5:42:52 PM [Tomcat] Problem detected: Tomcat Not Found!
5:42:52 PM [Tomcat] Disabling Tomcat buttons
5:42:52 PM [Tomcat] Run this program from your XAMPP root directory!
5:42:52 PM [main] Starting Check-Timer
5:42:52 PM [main] Control Panel Ready
5:56:46 PM [Apache] Attempting to start Apache app...
5:56:46 PM [Apache] Status change detected: running

Pages Location

› xampp › htdocs ›

Name	Date modified	Type	Size
 dashboard	3/28/2022 12:21 AM	File folder	
 img	3/28/2022 12:21 AM	File folder	
 new	8/21/2022 12:55 PM	File folder	
 webalizer	3/28/2022 12:21 AM	File folder	
 xampp	3/28/2022 12:21 AM	File folder	
 applications	8/27/2019 5:02 PM	Chrome HTML Do...	4 KB
 bitnami	8/27/2019 5:02 PM	Cascading Style S...	1 KB
 favicon	7/16/2015 6:32 PM	Icon	31 KB
 index	7/16/2015 6:32 PM	PHP File	1 KB
 page3	12/4/2022 5:56 PM	Chrome HTML Do...	1 KB
 page4	12/4/2022 6:14 PM	PHP File	1 KB

Open page3.html



Welcome to XAMPP for Windows 7.4.28

You have successfully installed XAMPP on this system! Now you can start using Apache, MariaDB, PHP and c
find more info in the [FAQs](#) section or check the [HOW-TO Guides](#) for getting started with PHP applications

localhost/page3.html x +

localhost/page3.html

Name:

Age:

Gender: Male Female

Program Skills: HTML Javascript PHP

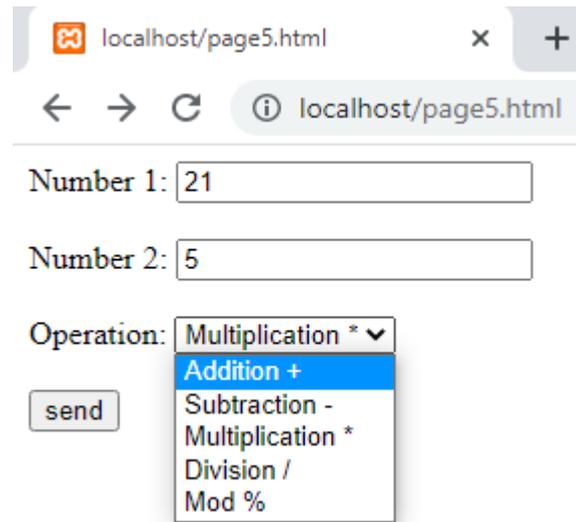
Country: ▼

localhost/page4.php?t1=Mohammed+Ali&t2=22&t3=M&t4=1&t6=3&s1=1 x +

localhost/page4.php?t1=Mohammed+Ali&t2=22&t3=M&t4=1&t6=3&s1=1

Mohammed Ali
22
Male
program Skills: HTML, PHP
Iraq

Page5



The screenshot shows a web browser window with the address bar displaying 'localhost/page5.html'. The page content includes two text input fields: 'Number 1:' containing '21' and 'Number 2:' containing '5'. Below these is a dropdown menu labeled 'Operation:' with 'Multiplication *' selected. The dropdown menu is open, showing options: 'Addition +', 'Subtraction -', 'Multiplication *', 'Division /', and 'Mod %'. A 'send' button is located to the left of the dropdown menu.

```
<form action="page6.php">
Number 1: <input type="number" name="t1" > <br><br>
Number 2: <input type="number" name="t2" > <br><br>
Operation: <select name="s1">
<option value="add"> Addition +</option>
<option value="sub"> Subtraction -</option>
<option value="mul"> Multiplication *</option>
<option value="div"> Division /</option>
<option value="mod"> Mod %</option>
</select><br><br>
<input type="submit" value="send">
</form>
```

Page6

```
<?php
$no1 = $_GET['t1'];
$no2 = $_GET['t2'];
$s1 = $_GET['s1'];
switch ($s1)
{
case "add":
echo $no1+$no2;
break;
```

```
case "sub":
echo $no1-$no2;
break;
case "mul":
echo $no1*$no2;
break;
case "div":
echo $no1/$no2;
break;
case "mod":
echo $no1%$no2;
break;
}
?>
```

Repetition

```
while (condition)
{
    Statements to be repeated;
}
```

```
do
{
    Statements to be repeated;
}
while (condition);
```

```
for (exp1;exp2;exp3)
{
    Statements to be repeated;
}
```

Page8

```
<?php
$no=$_GET['t1'];
echo "<table border=1 >";
for ($i=1;$i<=10;$i++)
{
    echo "<tr><td>$i * $no =</td>";
    echo "<td>".$i*$no."</td></tr>";
}
echo "</table>";
?>
```