Web Engineering

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What is PHP ?

What is PHP ?

PHP, Scripting language for Web Development.

Why Learn php ?

What I Need ?

Why php ?

Why Learn php ?
Easy to Learn

Famous Framework [Laravel]

Work with many databases

Working With All Hosting

Big Coummunity for Support

What I Need ?

Laptop or Pc

Learn HTML

Text Editor [VS]

Local Server

Internet Browser[Google Chrome , Firefox,

Opera , Safari]

Have A Target

Focus

Content

Dwonload XAMPP	**Syntax**	**Comments in php**	**Data Types**
Variables	Predefined.	**Arithmetic Operators**	**Comparison Operators**

Content

Logical Operators	If, Elseif, Else	**Switch**	loops
Beark- *continue*	include-require	Arrays	**Functionss**
Forms	COOKIES	SESSION	Filter-Validation

Content

Date And Time	Mysql & Sql	Realtions

Connect With Database	Crud Operation

What is XAMPP ?

Print In PHP

```php
<?php


echo 'Hello from backend';

echo '<br>';

echo 'Hello World';
ECHO '<BR>';
ECHO 'Case';
```

Data Type

```php
// datatypes.php
/*
    ===============================
    == Data Types
    == =
    == bool   => Boolean
    == int    => Integer
    == float  => Floating-Point-Number | double
    == string
    == array
    == gettype()
    ===============================
*/
echo gettype(1);
echo '<br>';
echo gettype(-1);
echo '<br>';
echo gettype(15.5);
echo '<br>';
echo gettype(true);
echo '<br>';
echo gettype(false);
echo '<br>';
echo gettype('Sara');
echo '<br>';
echo gettype( ['Ali' , 'Maryam' , 'Ahmed'] );
```

Type Casting

```php
echo gettype( 5 + 5);
echo '<br>';
echo 5 + "5";
echo '<br>';

// echo 3 + "4 cars";
// echo '<br>';


echo 3 + (int) "4 cars";
echo '<br>';
echo 3 + (integer) "8 cars";

echo 10 + 15.5;
echo '<br>';
echo 10 + (int) 15.5;
echo gettype( 10 + (int) 15.5);    // return integer

echo 10.5 + 10.5;    //
echo '<br>';
echo 10.3 + 10.4;
echo '<br>';
echo (int) 10.3 + (int) 10.4;    //
echo '<br>';
```

Type Casting

```php
echo gettype((int) 10.5 + (int) 10.5);
echo '<br>';
echo  gettype ( (10.2 + 10.3 ) );          // return double
echo '<br>';
echo  gettype( (int) (10.1 + 10.6 ) );     // return integer
echo '<br>';
echo gettype( (int) ( 10.5 + 10.5 )  );
```

Type Casting

```php
*/

// all data empty = false

echo '';
var_dump( (bool) '' );
var_dump( (bool) array() );
var_dump( (bool) [] );
echo '<br>';
var_dump( (bool) ['Ahmed'] );

echo true;
echo '<br>';
echo false;
echo '<br>';
var_dump( (bool) 0);
echo '<br>';
var_dump((bool) "0");

echo '<br>';
var_dump( (bool) 1);
echo '<br>';
var_dump((bool) "1");
```

String And Escaping

```php
echo 'hello';
    echo '<br>';
echo "Learing php";


echo 'hello "php" ';
    echo '<br>';
echo "Learing 'php' ";


echo 'php   \'php\'   ';
echo "php   \"php\"   ";
```

```php
echo 'Hello
from
php';


echo '<br>';


echo nl2br(' Hello from
php
learing now
php is very easy');
```

Variables

```php
$username = "Osama";
$Username = "Sara";

echo $username;
echo '<br>';
echo $Username;
echo '<br>';
echo 'Hello $username';
echo '<br>';
echo "Hello $username";
```

```php
// by refernce
$a = "Sara";
$b = &$a;
$b = "Maryam";


echo $a;
echo '<br>';
echo $b;
```

Predefined Variables

```php
echo $_GET["username"];
?>
<form action="" method="get">
    <input type="text" name="username">
    <input type="submit" value="Send">
</form>
```

Constants Variables

```php
*/
define('DB_NAME' ,'company');

 echo DB_NAME;
```

```php
define('DB_NAME' ,'company');

 echo DB_NAME;

define('DB_NAME' ,'Test');

echo DB_NAME;
```

Predefined Variables

```php
echo php_uname();      // return all info
echo '<br>';
echo PHP_VERSION;      // return os => opearating system
echo '<br>';
echo  PHP_OS_FAMILY . '<br>';
echo __LINE__;
echo '<br>';
echo __FILE__;
echo '<br>';

echo __DIR__;
```

Arithmetic Operators

```php
$num1 = 5;
$num1 += 8;
$num1 -= 8;
$num1 /= 8;
$num1 *= 8;
$num1 %= 8;

echo 1 + 1;
echo '<br>';
echo 1 - 1;
echo '<br>';
echo 4 * 3;
echo '<br>';
echo 2 **5;
echo '<br>';
echo 10 / 2;
echo '<br>';
echo 24 % 6;
echo '<br>';
```

Arithmetic Operators

```php
$num1 = 5;
$num1 += 8;
$num1 -= 8;
$num1 /= 8;
$num1 *= 8;
$num1 %= 8;

echo 1 + 1;
echo '<br>';
echo 1 - 1;
echo '<br>';
echo 4 * 3;
echo '<br>';
echo 2 **5;
echo '<br>';
echo 10 / 2;
echo '<br>';
echo 24 % 6;
echo '<br>';
```

Comparison Operators

```php
echo 5 == 5;
echo '<br>';
    var_dump ( 5 === '5');
    echo '<br>';
    var_dump ( 4 != 2);
    var_dump( 5 > 12 );
    var_dump( 5 >= 5 );
    var_dump ( 5 <= 5);
    var_dump( 5  <=> 12 );
var_dump( 5 != 5  );

var_dump( 'Ahmed' === 'Ahmed'  );
```

Logical Operators

```php
var_dump( 5 == 5 && 7 > 4 && 2 > 5 );
var_dump( 5 == 5 and 7 > 4 and 2 > 5 );


var_dump( 5 == 5 || 7 > 10 || 2 > 5 );
var_dump( 5 == 5 or 7 > 10 or 2 > 5 );
var_dump( 5 != 2 xor 5 > 10 );
```

If, Elseif, Else

```php
// if (condition) {
//    task
// } else {
//    task
// }

if ( 5 > 2 ) {
    echo 'good';
} else {
    echo 'Bad';
}



if ( 5 > 2 ) {
    echo 'good';
} else if ( 5 > 3 ) {
    echo 'ok';
}
else {
    echo 'Bad';
}
```

```php
if ( 5 > 2 ) {
    echo 'good';
}
if ( 5 > 3 ) {
    echo 'ok';
}

$age       = 19;
$country   = 'EG';

if ( $age >= 18 ) {
    echo 'Ok can do test <br>';
    if ( $country == "Saudi") {
        echo "Do This Test every year <br>";
    }
    else {
        echo 'do test every 2 years <br>';
    }
} else {
    echo "Your Age Less Than 18";
}
```

If, Elseif, Else

```php
if ( 5 > 2 ) {
    echo 'good';
} else {
    echo 'bad';
}


if (5 > 2) echo 'OK'; else echo 'Bad';
```

```php
$lang = "Arabic";

if ($lang == "Arabic") {

    echo 'مرحبا';

} elseif ($lang == "English") {

    echo 'Hello';

} elseif ($lang == "Spanish") {

    echo 'Hola';

} else {

    echo 'Unknown Language';

}
```

If, Elseif, Else

```php
if ( 5 > 2 ) :
        echo 'OH';
    elseif ( 5 > 3 ) :
        echo "Good";
    elseif ( 5 > 4 ) :
        echo "Nice";
endif;
```

If, Elseif, Else

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Support</title>
  </head>
  <body>
    <form action="" method="POST">
      <input type="text" name="username">
      <select name="lang">
        <option value="ar">Arabic</option>
        <option value="en">English</option>
        <option value="es">Spanish</option>
      </select>
      <input type="submit" value="Go">
    </form>
  </body>
</html>
```

```php
<?php

    if ($_SERVER["REQUEST_METHOD"] === "POST") {

        if ($_POST['lang'] == 'ar') {

            header("Location: ar.php");

            exit();

        } elseif ($_POST['lang'] == 'en') {

            header("Location: en.php");

            exit();

        }

    }

?>
```

Switch Case

```php
$day = 'Sun';

switch($day) {

    case 'Stu';
        echo "Hello Today Is $day We Are Open From 10 AM: 8 PM";
    break;
    case 'Sun';
        echo "Hello Today Is $day We Are Open From 10 AM: 8 PM";
    break;
    case "Mon":
    case "Thu":
        echo "Hello Today Is $day We Are Open From 08 AM:12 PM";
        break;
        default:
        echo "Unknown Day";

}
```

Switch Case

```php
$day  = 'Sun';

switch($day) {

    case 'Stu';
        echo "Hello Today Is $day We Are Open From 10 AM: 8 PM";
    break;
    case 'Sun';
        echo "Hello Today Is $day We Are Open From 10 AM: 8 PM";
    break;
    case "Mon":
    case "Thu":
        echo "Hello Today Is $day We Are Open From 08 AM:12 PM";
        break;
        default:
        echo "Unknown Day";

}
```