**Php introduction labsheet 01**

PHP is an open source, server-side, HTML-embedded web-scripting language that is compatible with all the major web servers (most notably Apache).

PHP enables you to embed code fragments in normal HTML pages — code that is interpreted as your pages are served up to users.

PHP also serves as a “glue” language, making it easy to connect your web pages to server-side databases.

It’s free, it’s open source, it’s full featured, it’s crossplatform, it’s stable, it’s fast, it’s clearly designed, it’s easy to learn, and it plays well with others.

**Server-Side Scripting**: server-side scripting is invisible to the user.

Server-side web scripting is mostly about connecting web sites to backend servers, processing data and controlling the behavior of higher layers such as HTML and CSS.

This enables the following types of two-way communication:

` ▪ Server to client: Web pages can be assembled from backend-server output.

▪ Client to server: Customer-entered information can be acted upon.

caping from HTML: How does the PHP parser recognize PHP code inside your HTML document?

▪ You tell the program when to spring into action by using special PHP tags at the beginning and end of each PHP section. This process is called escaping from HTML or escaping into PHP.

▪ Everything within these tags is understood by the PHP parser to be PHP code. The tags are known as Canonical PHP tags

▪ <php ?>

**1)introduction**

<!DOCTYPE html>

<html>

<body>

**<?php**

**echo "Hello world”;**

**?>**

</body>

</html>

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**2. Creating (Declaring) PHP Variables**

$x = 5;

$y = "John"

**3.**

$x = 5; // global scope

function myTest() {

// using x inside this function will generate an error

echo "<p>Variable x inside function is: $x</p>";

}

myTest();

echo "<p>Variable x outside function is: $x</p>";

4.

function myTest() {

$x = 5; // local scope

echo "<p>Variable x inside function is: $x</p>";

}

myTest();

// using x outside the function will generate an error

echo "<p>Variable x outside function is: $x</p>";

**5. print startment**

echo "<h2>PHP is Fun!</h2>";

echo "Hello world!<br>";

echo "I'm about to learn PHP!<br>";

echo "This ", "string ", "was ", "made ", "with multiple parameters.";

**6. try this.**

$txt1 = "Learn PHP";

$txt2 = "first time";

$x = 5;

$y = 4;

echo "<h2>" . $txt1 . "</h2>";

echo "Study PHP at " . $txt2 . "<br>";

echo $x + $y;

7**.Data Type**

$x = 5;

var\_dump($x);

echo "<br>";

$x = "Hello world!";

$y = 'Hello world!';

var\_dump($x);

echo "<br>";

var\_dump($y);

$x = true;

echo "<br>";

var\_dump($x);

**8. PHP Strings**

$x = "John";

echo 'Hello ';

echo "<br>";

echo strlen("Hello world!");

echo "<br>";

echo str\_word\_count("Hello world!");

echo "<br>";

echo strpos("Hello world!", "world");

**9.String**

$x = "Hello World!";

echo strtolower($x);

echo "<br>";

$x = "Hello World!";

echo str\_replace("World", "Dolly", $x);

echo "<br>";

$x = "Hello World!";

echo strrev($x);

echo "<br>";

$x = " Hello World! ";

echo trim($x);

echo "<br>";

$x = "Hello";

$y = "World";

$z = $x . " " . $y;

echo $z;

echo "<br>";

$x = "Hello World!";

echo substr($x, 6, 5);10.

**PHP Casting**

$a = 5; // Integer

$b = 5.34; // Float

$c = "hello"; // String

$d = true; // Boolean

$e = NULL; // NULL

$a = (string) $a;

$b = (string) $b;

$c = (string) $c;

$d = (string) $d;

$e = (string) $e;

//To verify the type of any object in PHP, use the var\_dump() function:

var\_dump($a);

echo "<br>";

var\_dump($b);

echo "<br>";

var\_dump($c);

echo "<br>";

var\_dump($d);

echo "<br>";

var\_dump($e);

**11.php math**

echo(min(0, 150, 30, 20, -8, -200));

echo "<br>";

echo(max(0, 150, 30, 20, -8, -200));

echo "<br>";

echo(abs(-6.7));

echo "<br>";

echo(sqrt(64));

echo "<br>";

echo(round(0.60));

echo "<br>";

echo(round(0.49));

echo "<br>";

echo(rand());

echo "<br>";

echo(rand(10, 100));

**12. it support all the operaters**

* Arithmetic operators $x + $y
* Assignment operators $x = $y
* Comparison operators $x == $y
* Increment/Decrement operators ++$x
* Logical operators $x and $y
* String operators
* Array operators
* Conditional assignment operators

**13.if else**

if (5 > 3) {

echo "Have a good day!";

}

echo "<br>";

$t = 14;

if ($t < 20) {

echo "Have a good day!";

}

echo "<br>";

$t = date("H");

if ($t < "20") {

echo "Have a good day!";

} else {

echo "Have a good night!";

}

echo "<br>";

$t = date("H");

if ($t < "10") {

echo "Have a good morning!";

} elseif ($t < "20") {

echo "Have a good day!";

} else {

echo "Have a good night!";

}

**14.switch**

$favcolor = "red";

switch ($favcolor) {

case "red":

echo "Your favorite color is red!";

break;

case "blue":

"Your favorite color is blue!";

break;

case "green":

echo "Your favorite color is green!";

break;

default:

echo "Your favorite color is neither red, blue, nor green!";

}

**15.loop**

**while loop**

$i = 1;

while ($i < 6) {

echo $i;

$i++;

}

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**do while loop**

$i = 1;

do {

echo $i;

$i++;

} while ($i < 6);

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**for loop**

for ($x = 0; $x <= 10; $x++) {

echo "The number is: $x <br>";

}

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for each loop

$colors = array("red", "green", "blue", "yellow");

foreach ($colors as $x) {

echo "$x <br>";

}

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**16.**

**function**

function myMessage() {

echo "Hello world!";

}

myMessage();

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function familyName($fname) {

echo "$fname WWWWW.<br>";

}

familyName("A");

familyName("B");

familyName("C");

familyName("D ");

familyName("E");

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**17.Array**

$cars = array("Volvo", "BMW", "Toyota");

echo count($cars);