**PHP EXERCISES**

**Basic PHP Syntax:**

**<?php**

// PHP code goes here

**?>**

**Comments in PHP:**

// This is a single-line comment

# This is also a single-line comment

/\* This is a

multi-line comment \*/

**PHP Variables:**

$txt = "W3Schools.com";

echo "I love $txt!";

**The PHP echo Statement:**

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.";

**The PHP print Statement**

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

print "Hello world!<br>";

print "I'm about to learn PHP!";

**PHP Data Types**

$x = 5;//integer

var\_dump($x);

$x = "Hello world!";//php string

$y = 'Hello world!';

var\_dump($x);

echo "<br>";

var\_dump($y);

$x = 10.365;//float

var\_dump($x);

$x = true;//Php boolean

var\_dump($x);

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

var\_dump($cars);

//Php object

class Car {

public $color;

public $model;

public function \_\_construct($color, $model) {

$this->color = $color;

$this->model = $model;

}

public function message() {

return "My car is a " . $this->color . " " . $this->model . "!";

}

}

$myCar = new Car("red", "Volvo");

var\_dump($myCar);

**PHP Strings:**

$x = "John";

echo 'Hello $x';

echo strlen("Hello world!");

**PHP Numbers:**

$a = 5;

$b = 5.34;

$c = "25";

var\_dump($a);

var\_dump($b);

var\_dump($c);

**PHP Casting**

//Cast to String

$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);

var\_dump($b);

var\_dump($c);

var\_dump($d);

var\_dump($e);

//cast to integer

$a = 5; // Integer

$b = 5.34; // Float

$c = "25 kilometers"; // String

$d = "kilometers 25"; // String

$e = "hello"; // String

$f = true; // Boolean

$g = NULL; // NULL

$a = (int) $a;

$b = (int) $b;

$c = (int) $c;

$d = (int) $d;

$e = (int) $e;

$f = (int) $f;

$g = (int) $g;

**PHP Math:**

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

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

echo(abs(-6.7));

echo(sqrt(64));

echo(round(0.60));

echo(round(0.49));

PHP Constants

define(*name*, *value*, *case-insensitive*);//syntax

define("GREETING", "Welcome to W3Schools.com!");//Example

echo GREETING;

const MYCAR = "Volvo";//const keyword

echo MYCAR;

define("GREETING", "Welcome to W3Schools.com!");//constant are global

function myTest() {

echo GREETING;

}

myTest();

**PHP if Statements**

$t = 14;

if ($t < 20) {

echo "Have a good day!";

}

**PHP if...else Statements**

$t = date("H");

if ($t < "20") {

echo "Have a good day!";

} else {

echo "Have a good night!";

}

PHP Nested if Statement

$a = 13;

if ($a > 10) {

echo "Above 10";

if ($a > 20) {

echo " and also above 20";

} else {

echo " but not above 20";

}

}

**PHP switch Statement**

switch (*expression*) {

case *label1:*

//*code block*

break;

case *label2:*

//*code block;*

break;

case *label3:*

//*code block*

break;

default:

//*code block*

}

**PHP Loops**

//while loop

$i = 1;

while ($i < 6) {

echo $i;

$i++;

}

//do while loop

$i = 1;

do {

echo $i;

$i++;

} while ($i < 6);

//for loop

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

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

}

**PHP Functions**

function familyName($fname, $year) {

echo "$fname Refsnes. Born in $year <br>";

}

familyName("Hege", "1975");

familyName("Stale", "1978");

familyName("Kai Jim", "1983");

**PHP Arrays:**

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