

PHP syntax:

Exercise 1:

Insert the missing part of the code below to output "Hello World".

```
 "Hello World";
```

Solution:

```
echo  "Hello World";
```

Exercise 2:

Write the correct opening tag and close tag for PHP scripts.

```
  
echo "This is PHP";  

```

Solution:

```
<?php  
echo "This is PHP";  

```

Exercise 3:

Single-line comments in PHP can be written using two different prefixes, write one of them.

```
 This is a single-line comment
```

Solution:

```
 This is a single-line comment
```

Exercise 4:

Insert the correct characters to write a multi-line comment.

```
 This is a  
multi-line  
comment 
```

Solution:

```
/* This is a  
multi-line  
comment*/
```

Exercise 5:

Statements in PHP have to end with a special character, which one?

```
echo "Hello World" 
```

Solution:

```
echo "Hello World";
```

PHP variables:

Exercise 1:

Create a variable named `txt` and assign the value `"Hello"`.

```
 = "  ";
```

Solution:

```
$txt = "Hello";
```

Exercise 2:

Create one variable named `x`, and one variable named `y`, then use the `echo` statement to output the sum of `x` and `y`.

```

x = 5;
y = 7;
echo x + y;
```

Solution:

```
$x = 5;
$y = 7;
echo $x + $y;
```

Solution:

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
asort($age);
```

PHP strings:

Exercise 1:

Get the length of the string "Hello World!".

```
echo ( );
```

Solution:

```
echo strlen("Hello World!");
```

Exercise 2:

Reverse the string "Hello World!".

```
echo ("Hello World!");
```

Solution:

```
echo ("Hello World!");
```

Exercise 3:

Replace the word "World" with the word "Dolly".

```
$oldtxt = "Hello World!";  
$newtxt = (, , );
```

Solution:

```
$oldtxt = "Hello World!";  
$newtxt = ("World", "Dolly", );
```

PHP operators:

Exercise 1:

Multiply 10 with 5, and output the result.

```
echo 10  5;
```

Solution:

```
echo 10 * 5;
```

Exercise 2:

Divide 10 by 2, and output the result.

```
echo 10 / 2;
```

Solution:

```
echo 10 / 2;
```

Exercise 3:

Use the correct comparison operator to check if \$a is equal to \$b .

```
var_dump($a == $b);
```

Solution:

```
var_dump($a == $b);
```

Exercise 4:

Use the correct comparison operator to check if \$a is NOT equal to \$b .

```
var_dump($a != $b);
```

Solution:

```
var_dump($a !== $b);
```

PHP if-else

Exercise 1:

Output "Hello World" if `$a` is greater than `$b`.

```
$a = 50;  
$b = 10;  
☐  >  {  
    echo "Hello World";  
}
```

Solution:

```
$a = 50;  
$b = 10;  
if ($a > $b) {  
    echo "Hello World";  
}
```

Exercise 2:

Output "Hello World" if `$a` is NOT equal to `$b`.

```
$a = 50;  
$b = 10;  
☐    {  
    echo "Hello World";  
}
```

Solution:

```
$a = 50;  
$b = 10;  
if ($a !== $b) {  
    echo "Hello World";  
}
```

Exercise 3:

Output "Yes" if \$a is equal to \$b , otherwise output "No".

```
$a = 50;
$b = 10;
☐ ($a == $b) {
    echo "Yes";
} ☐ {
    echo "No";
}
```

Solution:

```
$a = 50;
$b = 10;
if ($a == $b) {
    echo "Yes";
} else {
    echo "No";
}
```

Exercise 4:

Output "1" if \$a is equal to \$b , print "2" if \$a is greater than \$b , otherwise output "3".

```
$a = 50;
$b = 10;
☐ ($a == $b) {
    echo "1";
} ☐ ($a > $b) {
    echo "2";
} ☐ {
    echo "3";
}
```

Solution:

```
$a = 50;
$b = 10;
if ($a == $b) {
    echo "1";
} elseif ($a > $b) {
    echo "2";
} else {
    echo "3";
}
```

PHP switch:

Exercise 1:

Create a switch statement that will output "Hello" if \$color is "red", and "welcome" if \$color is "green".

```
 ($color) {
     "red":
        echo "Hello";
        break;
     "green":
        echo "Welcome";
        break;
}
```

Solution:

```
switch ($color) {
    case "red":
        echo "Hello";
        break;
    case "green":
        echo "Welcome";
        break;
}
```

Exercise 2:

Add a section that will output "Neither" if \$color is neither "red" nor "green".

```
switch ($color) {
    case "red":
        echo "Hello";
        break;
    case "green":
        echo "Welcome";
        break;
    
        echo "Neither";
}
```

Solution:


```
switch ($color) {  
    case "red":  
        echo "Hello";  
        break;  
    case "green":  
        echo "Welcome";  
        break;  
    default:  
        echo "Neither";  
}
```

PHP loops:

Exercise 1:

Output `$i` as long as `$i` is less than 6.

```
$i = 1;
```

```
while ($i < 6) {  
    echo $i;  
    $i++;  
}
```

Solution:

```
$i = 1;
```

```
while ($i < 6) {  
    echo $i;  
    $i++;  
}
```

Exercise 2:

Output `$i` as long as `$i` is less than 6.

```
$i = 1;

[ ] {
    echo $i;
    $i++;
} [ ] ($i < 6);
```

Solution:

```
$i = 1;

do {
    echo $i;
    $i++;
} while ($i < 6);
```

Exercise 3:

Create a loop that runs from 0 to 9.

```
[ ] ($i = 0; $i < 10; [ ]) {
    echo $i;
}
```

Solution:

```
for ($i = 0; $i < 10; $i++) {
    echo $i;
}
```

Exercise 4:

Loop through the items in the `$colors` array.

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

[ ] ($colors [ ] $x) {
    echo $x;
}
```

Solution:

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

foreach ($colors as $x) {
    echo $x;
}
```

PHP functions:

Exercise 1:

Create a function named `myFunction`.

```
 {
    echo "Hello World!";
}
```

Solution:

```
function myFunction() {
    echo "Hello World!";
}
```

Exercise 2:

Call (execute) a function named `myFunction`.

```
function myFunction() {
    echo "Hello World!";
}
```

```
;
```

Solution:

```
function myFunction() {  
    echo "Hello World!";  
}
```

```
myFunction();
```

Exercise 3:

Inside a function with two parameters, print the first parameter.

```
function myFunction($fname, $lname) {  
    echo   
}
```

Solution:

```
function myFunction($fname, $lname) {  
    echo   
}
```

Exercise 4:

Let the function return the second value.

```
function myFunction($fname, $lname) {  
       
}
```

Solution:

```
function myFunction($fname, $lname) {  
    return   
}
```

PHP arrays:

Exercise 1:

```
$fruits = array("Apple", "Banana", "Orange");  
echo 
```

Solution:

```
$fruits = array("Apple", "Banana", "Orange");  
echo 
```

Exercise 2:

Output the second item in the `$fruits` array.

```
$fruits = array("Apple", "Banana", "Orange");  
echo 
```

Solution:

```
$fruits = array("Apple", "Banana", "Orange");  
echo 
```

Exercise 3:

Create an associative array containing the age of Peter, Ben and Joe.

```
$age = array("Peter" => "35", "Ben" => "37", "Joe" => "43");
```

Solution:

```
$age = array("Peter" => "35", "Ben" => "37", "Joe" => "43");
```

Exercise 4:

Here you see an associative array. Output "age" of Ben.

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");  
echo "Ben is " .  . " years old.";
```

Solution:

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");  
echo "Ben is " .  . " years old.";
```

Exercise 5:

Loop through an associative array and output the key and the value.

```
($age as $x => $y) {  
    echo "Key=" .  . ", Value=" .   
}
```

Solution:

```
foreach($age as $x => $y) {  
    echo "Key=" . $x . ", Value=" .   
}
```

Exercise 6:

Use the correct array method to sort the `$colors` array alphabetically.

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

```

Solution:

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

```

Exercise 7:

Use the correct array method to sort the `$colors` array descending alphabetically.

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

Solution:

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

Exercise 8:

Use the correct array method to sort the `$age` array according to the *values*.

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");  
.
```

Solution:

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");  
($age);
```