PHP

PHP Introduction

- "PHP: Hypertext Preprocessor"
- Open source scripting language
- -> A scripting language or script language is a programming language that is used to manipulate, customize, and automate the facilities of an existing system.
 - PHP scripts are executed on the server
 - PHP files have extension ".php"

What Can PHP Do?

- PHP can create, open, read, write, delete, and close files on the server
- PHP can collect form data
- PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can be used to control user-access

Syntex

```
<?php
    // PHP code goes here
?>
```

Comments

```
<?php

// This is a single-line comment

# This is also a single-line comment

/*

This is a multiple-lines comment block
that spans over multiple
lines
 */

$x = 5 /* + 15 */ + 5;

?>
```

Variable

In PHP, a variable starts with the \$ sign, followed by the name of the variable:

```
<?php
$txt = "Hello world!";
$x = 5;
$y = 10.5;
?>
```

Variable scopes

PHP has three different variable scopes:

- local
- global
- static

What is an Array?

• An array is a special variable, which can hold more than one value at a time.

```
Notation =array();
```

- Indexed arrays Arrays with a numeric index
- **Associative arrays** Arrays with named keys
- Multidimensional arrays Arrays containing one or more arrays

```
1. $cars = array("Volvo", "BMW", "Toyota");
$cars[0] = "Volvo";
$cars[1] = "BMW";
$cars[2] = "Toyota";

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

```
3. $cars = array (
    array("Volvo",22,18),
    array("BMW",15,13),
    array("Saab",5,2),
    array("Land Rover",17,15)
);
```

PHP while Loop

The while loop executes a block of code as long as the specified condition is true.

Syntax

```
while (condition is true) {
  code to be executed;
}
```

Example

```
<?php
$x = 1;

while($x <= 5) {
   echo "The number is: $x <br>";
   $x++;
}
?>
```

PHP do...while Loop

The do...while loop will always execute the block of code once, it will then check the condition, and repeat the loop while the specified condition is true.

Syntax

```
do {
  code to be executed;
} while (condition is true);
```

Example

```
<?php
$x = 1;

do {
   echo "The number is: $x <br>";
   $x++;
} while ($x <= 5);
?>
```

Switch Case

Use the switch statement to select one of many blocks of code to be executed.

Syntax

```
switch (n) {
  case label1:
    code to be executed if n=label1;
    break;
  case label2:
    code to be executed if n=label2;
    break;
  case label3:
    code to be executed if n=label3;
    break;
    . . .
 default:
    code to be executed if n is different from all labels;
}
<?php
$favcolor = "red";
switch ($favcolor) {
  case "red":
    echo "Your favorite color is red!";
    break;
  case "blue":
    echo "Your favorite color is blue!";
    break;
    default:
    echo "Your favorite color is neither red, blue, nor green!";
```

PHP include and require Statements

```
include 'filename';
or
require 'filename';
```

PHP Functions:

- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute automatically when a page loads.

Syntax

```
function functionName() {
  code to be executed;
}
```

Example

```
<?php
function writeMsg() {
  echo "Hello world!";
}
writeMsg(); // call the function
?>
```

PHP Function Arguments

Information can be passed to functions through arguments. An argument is just like a variable.

Arguments are specified after the function name, inside the parentheses. You can add as many arguments as you want, just separate them with a comma.

```
<?php
function familyName($fname) {
  echo "$fname Refsnes.<br>";
}
familyName("Jani");
familyName("Hege");
familyName("Stale");
familyName("Kai Jim");
familyName("Borge");
?>
The following example has a function with two arguments ($fname and $year):
<?php
function familyName($fname, $year) {
  echo "$fname Refsnes. Born in $year <br>";
}
familyName("Hege", "1975");
familyName("Stale", "1978");
familyName("Kai Jim", "1983");
?>
```