WEB 2

L2INFO - PART 2

PHP

RASMUS LERDORF

WHAT IS PHP ?

- Web development
- Server-side language
- Interpreted language

HOW TO RUN IT ?

- HTTP Server module
- FPM
- Command line

DISPLAY A HELLO WORLD

```php
<?php echo 'Hello world ! '; ?>
```

SPECS OF PHP

SYNTAX

```php
<?php
    // Single line comment
    $number = 10;

    /* Block comment */
    if ($number > 10) {
        echo 'Greater !';
    } else {
        echo 'Lesser or equal';
    }
?>
```

TYPES

- 4 native types : integer, float, string, boolean
- 2 compound : array, object
- 2 special types : null, ressource

ARRAYS

- Structure
- Acces via index
- Starts at 0

ARRAYS

```php
$tab = array();
$tab[] = 'Michiel';
$tab[] = 'Missotten';

echo $tab[0];
echo $tab[1];

$tab = array(
    'Michiel', 'Missotten'
);
```

ARRAYS

```
$michiel = array(
    'LastName'  => 'Missotten',
    'FirstName' => 'Michiel'
);
```

CONDITIONS

```
if (condition) {

} elseif (condition) {

} else {

}
```

COMPARISON

- < : strictly lesser then
- > : strictly greater then
- == / === : equals
- != / <> / !== : different from
- && : AND
- || : OR

WHILE LOOP

```
while ($i != 10) {
    // CODE
}
```

DO LOOP

```
do {
    // CODE
} while ($i != 10);
```

FOR LOOP

```
for ($i = 0; $i != 10; $i++) {
    // CODE
}
```

FOREACH LOOP

```php
foreach ($array as $element) {
    // CODE
}
```

FUNCTIONS

```php
function sayHello($name) {
    echo 'Hello ' . $name . ' !';
}
```

EXERCICE 1

Write a function that prints your age given a year of birth

EXERCICE 2

Write a function that counts the number of letters in a given
name

EXERCICE 3

Create an associative array of all european countries with their capitals and the country's population.
Display the list of countries first in alphabetical order, then order them by population.

EXERCICE 4

Create a recursive function that calculates the factorial of a given number

EXERCICE 5

Create a function that returns true if the given word/sentence is a palindrome

EXERCICE 6

Given the letter A is worth 1 point and B is worth 2 points, C is worth 3 points, etc. Calculate the value of the following words/sentences :

- PHP
- Lorem ipsum
- Je suis charlie
- we do not forget, we do not forgive, we are legion, expect us.

GO FURTHER

- php.net - History of PHP
- Fabien Potencier - PHP is much better than you think