W12 – PHP – Web Programming III

POO in PHP

#### class

```
class Character {
const POWER MAGICIAN = 45;
const POWER THIEF = 80;
const POWER BARBARIAN = 250;
private $ intiGood = "hello";
private $ initBad = 47 + 4;
private function addHp($hpToAdd) {
public function removeHp($hpToRemove) {
public function hit(Character $trarget) {
   $trarget->removeHp($this-> force);
```

#### constructor

```
class Student {
     public function _ construct($ name, $ age) {
     public function getname() {
     public function setname($name) {
           if (strlen($name) < 4)</pre>
                 trigger error("name is too short", E USER WARNING);
     public function getAge() {
     public function setAge($age) {
           if (!is int($age)) {
                 trigger error("enter valid age", E USER ERROR);
                 return;
```

## Going further with PHP

- get set toString class methods
- using interfaces
- using exception handling
- using inheritance

And many more...

#### instanciation

```
<?php
require "Student.php";
$stud = new Student();
$stud2 = new Student("jf", "lidou", 36);
//use -> to call methods of a class
$perso = new Character();
$perso->removeHp(10);
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<h1>Hello <?=$stud2->getname()?> </h1>
<h1>A character constant : <?
=Character::POWER MAGICIAN?></h1>
</body>
</html>
```

#### static

```
class StudentManager {
        const HELLO = "test hello";
        private static $queryGetAll = "select * from
        public static $queryGetById = "select * from
   public static function getAll() : array {
        return [new Student(), new Student()];
   public static function getById($id) : Student
        if(!is int($id)){
                 return null;
                 echo self::HELLO;
        }else{
                 return [new Student()];
```

```
//Use :: to call methods, const,
or static attributes
$stud =
StudentManager::getAll();
$valueStatic = StudentManager::
$queryGetById;
echo StudentManager::HELLO
```

# serialize() / unserialize()

```
$tab = ["test", 4 , true, 56.45]:
$serialisTab = serialize($tab);
echo $serialisTab;
{i:0:s:4:"test":i:1:i:4:i:2:b:1:i:3:d:56.450
00000000003;}
echo "<br />";
var dump(unserialize($serialisTab));
$user = new User(1, "stud", "abc" );
$serialObj = serialize($user);
echo $serialObj .'<br />';
3:"stud";s:10:"User pwd";s:3:"abc";}
$unserialObj = unserialize($serialObj);
echo $unserialObj;
//1 : stud : ab
```

```
lass User{
   private $ id; private $ login; private $ pwd;
   public function construct(int $ id,string
   $ login,string $ pwd) {
   public function getId() {
   public function setId($id) {
   public function getLogin() {
       return $this-> login;
   public function setLogin($login) {
   public function getPwd() {
       return $this-> pwd;
   public function setPwd($pwd) {
   //php method to override the print of an object
   public function toString() {
    return $this-> id . ' : ' . $this-> login .
```

### Storing objects in a session

```
session start();
$userSession = new User(45, "marcel", "45687");
//saving objects
 SESSION['user'] = serialize($userSession);
//accessing saved objects
$myUserInSession = unserialize($_SESSION['user']);
```