Week 3
Lab2
web 2

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Array

```php
<?php
$cars = array("Volvo", "BMW", "Toyota");
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
?>
```

I like Volvo, BMW and Toyota.

Count

```php
<?php
$cars = array("Volvo", "BMW", "Toyota");
echo count($cars);
?>
```

3

Print Array

```php
<?php
$cars = array("Volvo", "BMW", "Toyota");
$arrlength = count($cars);

for($x = 0; $x < $arrlength; $x++) {
  echo $cars[$x];
  echo "<br>";
}
?>
```

Volvo
BMW
Toyota

Array

```php
<?php

for ($x=0 ; $x<10 ; $x++)
{
    $Arr[$x]=$x;
}

$Arr[5]=99;
echo "<pre>";
print_r($Arr);
echo "</pre>";
?>
```

array_map

The array_map() function sends each value of an array to a user-made function, and returns an array with new values, given by the user-made function.

```php
ll.php > ...
1    <?php
2    function myfunction($v)
3    {
4        return($v*$v);
5    }
6
7    $a=[1,2,3,4,5];
8    echo"<pre>";
9    print_r(array_map("myfunction",$a));
10   echo"</pre>";
11   ?>
```

```
Array
(
    [0] => 1
    [1] => 4
    [2] => 9
    [3] => 16
    [4] => 25
)
```

array_map

```php
<?php
function myfunction($v)
{
if ($v==="Dog")
    {
    return "Fido";
    }
return $v;
}

$a=array("Horse","Dog","Cat");
echo"<pre>";
print_r(array_map("myfunction",$a));
echo"</pre>";
echo"<br>";
echo"<pre>";
echo var_dump(array_map("myfunction",$a));
echo"</pre>";
?>
```

```
Array
(
    [0] => Horse
    [1] => Fido
    [2] => Cat
)


array(3) {
  [0]=>
  string(5) "Horse"
  [1]=>
  string(4) "Fido"
  [2]=>
  string(3) "Cat"
}
```

Anonymous Function

```php
<?php


$a=[10,20,30];
echo"<pre>";
print_r(array_map(function($v){return $v*$v;},$a));
echo"</pre>";
?>
```

```
Array
(
    [0] => 100
    [1] => 400
    [2] => 900
)
```

Anonymous Function

```php
<?php

$x=4;
$hi=function ($y) use ($x)
{
  return $y+$x;
};
echo $hi(4);

?>
```

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Arrow Function (short syntax of Anonymous Function)

```
fn(arguments) => expression to be returned;
```

```php
<?php
// This only works in PHP 7.4 and above
$str = "Hello World";
$my_function = fn($a) => $str . $a;
echo $my_function("!");
?>
```

Hello World!

Arrow Function

```php
ll.php > ...
1    <?php
2
3    $a=[1,2,3,4,5];
4    echo"<pre>";
5    print_r(array_map( fn($v)=> $v*$v , $a ));
6    echo"</pre>";
7    ?>
```

```
Array
(
    [0] => 1
    [1] => 4
    [2] => 9
    [3] => 16
    [4] => 25
)
```

String

```php
ll.php > ...
1    <?php
2    $str="Ahmed";
3    echo __line__.") ".$str[0]."<br>";
4    echo __line__.") ".$str[strlen($str)-1]."<br>";
5    echo __line__.") ".$str[-1]."<br>";
6    $str[3]='G';
7    echo __line__.") ".$str."<br>";
8    echo __line__.") ".$str[7]."<br>";
9    $str[9]='o';
10   echo __line__.") ".$str."<br>";
11   echo __line__.") ".strlen($str)."<br>";
12   echo __line__.") ".$str[7]."<br>";
13   echo __line__.") ".$str."<br>";
14
15   echo"<pre>";
16   print_r($str);
17   echo"</pre>";
18   ?>
```

3) A
4) d
5) d
7) AhmGd

Warning: Uninitialized string offset 7 in
C:\xampp\htdocs\p1\ll.php on line **8**
8)
10) AhmGd o
11) 10
12)
13) AhmGd o

AhmGd   o

String

```php
<?php
$str="Ahmed";
echo __line__.") ".lcfirst($str)."<br>";
echo __line__.") ".ucfirst("ahmed")."<br>";
echo __line__.") ".strtolower("AHMED")."<br>";
echo __line__.") ".strtoupper("ahmed")."<br>";
echo __line__.") ".ucwords("ahmed ali mustafa")."<br>";
echo __line__.") ".ucwords("ahmed ali ,mustafa",",")."<br>";
echo __line__.") ".str_repeat("ahmed , ",4)."<br>";
?>
```

3) ahmed
4) Ahmed
5) ahmed
6) AHMED
7) Ahmed Ali Mustafa
8) Ahmed ali ,Mustafa
9) ahmed , ahmed , ahmed , ahmed ,

Implode

```php
<?php
$arr = array('Hello','World','Beautiful','Day!');
$str1= implode(" ",$arr);
echo __line__.") ".$str1."<br>";
$str2= implode(",",$arr);
echo __line__.") ".$str2."<br>";
$str3= implode("**",$arr);
echo __line__.") ".$str3."<br>";
$str4= implode($arr);
echo __line__.") ".$str4."<br>";
?>
```

4) Hello World Beautiful Day!

6) Hello,World,Beautiful,Day!

8) Hello**World**Beautiful**Day!

10) HelloWorldBeautifulDay!

explode

```php
<?php
$str = "Hello world. It's a beautiful day.";
echo "<pre>";
print_r (explode(" ",$str));
echo "</pre>";
?>
```

```
Array
(
    [0] => Hello
    [1] => world.
    [2] => It's
    [3] => a
    [4] => beautiful
    [5] => day.
)
```

explode

```php
<?php
$str = 'one,two,three,four';

// zero limit
echo "<pre>";
print_r(explode(',',$str,0));
echo "</pre>";
// positive limit
echo "<pre>";
print_r(explode(',',$str,2));
echo "</pre>";
// negative limit
echo "<pre>";
print_r(explode(',',$str,-1));
echo "</pre>";
```

```
Array
(
    [0] => one,two,three,four
)

Array
(
    [0] => one
    [1] => two,three,four
)

Array
(
    [0] => one
    [1] => two
    [2] => three
)
```

explode

```php
<?php
$str = 'one two three four';

// zero limit
echo "<pre>";
print_r(explode('t',$str));
echo "</pre>";

?>
```

```
Array
(
    [0] => one
    [1] => wo
    [2] => hree four
)
```

shuffle()

```php
<?php
$my_array = array("red","green","blue","yellow","purple");

shuffle($my_array);
echo "<pre>";
print_r($my_array);
echo "</pre>";
?>
```

```
Array
(
    [0] => yellow
    [1] => red
    [2] => green
    [3] => purple
    [4] => blue
)
```

str_shuffle() & strrev()

```php
<?php
$str="Ahmed";
echo __line__.") ".str_shuffle($str)."<br>";
echo __line__.") ".strrev($str);
?>
```

3) hAemd
4) demhA

Str_split()

```php
<?php
$str = " Hello World! ";
echo "<pre>";
print_r($str);
echo "</pre>";

echo "<pre>";
print_r(str_split($str));
echo "</pre>";
?>
```

```
Hello World!

Array
(
    [0] =>
    [1] => H
    [2] => e
    [3] => l
    [4] => l
    [5] => o
    [6] =>
    [7] => W
    [8] => o
    [9] => r
    [10] => l
    [11] => d
    [12] => !
    [13] =>
)
```

Str_split()

```php
ll.php > ...
1    <?php
2    $str = " Hello World! ";
3
4    echo "<pre>";
5    print_r(str_split($str,2));
6    echo "</pre>";
7    ?>
```

```
Array
(
        [0] =>  H
        [1] => el
        [2] => lo
        [3] =>  W
        [4] => or
        [5] => ld
        [6] => !
)
```

Chunk_split

```php
<?php
$str = " Hello World! ";


echo chunk_split($str,3,'#');

?>
```

He#llo# Wo#rld#! #

strpos

```php
<?php
echo strpos("I love php, I love php too!","php");
?>
```

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strrchr

```php
<?php
echo strrchr("Hello world! What a beautiful day!", "What");
?>
```

What a beautiful day!