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4 PHP libraries

Include/Require

NULL

- NULL is both a special type and a value
- Assignment start of ectsity xam Help
 - A variable has both type NULL and value NULL in the following three situations:
 - 1 The defiablectus hostpart becauseigned calle (rotegian o NULL)
 - The variable has been assigned the value NULL
 - 3 The variable has been unset using the unset operation
- There are a farlety of functions that can be used to test whether a variable in this including. The power of the control of
 - <u>bool</u> isset(\$variable)

 TRUE iff \$variable exists and does not have value NULL
 - bool is_null(expr)

 TRUE iff expr is identical to NULL

NULL

Warning: Using NULL with == may lead to counter-intuitive results

```
$\frac{\frac{1}{2} \text{started the point Project Exam Help}{\frac{1}{2} \text{started the point Project Exam Help}{\fra
```

Type juggling means that an empty array is (loosely) equal to NULL but not identical (strictly equal) to NULL

Special types Resources

Resources

A resource is a reference to an external resource and corresponds to a Perl filehandle

Returned file pointer resource for Jilename access using mode on success, or FALSE on error

Mode	Operation //	Create	July Cate	com
'r'	rea Pfile • / / D		ouci.	COIII
'r+'	read/write file			
'w'	write file	yes	yes	
'w+'	rrad∕tvritt ville ←	yes 2	tyen OV	vcoder
'a' 👗	append file	yes	POV	VOGGOT
'a+'	read/append file	yes		
'x'	write file	yes		
'x+'	read/write file	yes		

See http://www.php.net/manual/en/resource.php for further details

Resources

Resources

Special types

- bool fclose(resource)
 - Closes the resource

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- string fgets(resource [, length])
 - Returns a line read from resource and return fat for there in once at odecerd. Com
 - With optional argument length, reading ends when length-1 bytes have been read, or a newline or on EOF (whichever comes first)
- strinAfded WeChtat powcoder
 - Returns length characters read from resource

```
$handle = fopen('somefile.txt', 'r');
while ($line = fgets($handle)) {
   // processing the line of the file
}
fclose($handle);
```

Special types Resources

Resources

COMP284 Scripting Languages

- int fwrite(resource, string [, length])
- Writes a string to a resource SS1-210 in the Miting to is an ire to be briefly and her write or the end extring is reached, whichever comes first
 - int fprintf(resource, format, arg1, arg2, ...)
 - Write a list of arguments to a resource in the given formate

 Identical to printf with output to resource
 - <u>int</u> vfprintf (resource, format, array)
 - Writes the tlerien's of an a ray to a resource in the given for nat
 - Identical to vprintf with output to respect

```
$handle = fopen('somefile.txt', 'w');
fwrite($handle,"Hello World!".PHP_EOL); // 'logical newline'
fclose($handle);
```

In contrast to Perl, in PHP \n always represents the character with ASCII code 10 not the platform dependent newline \lors use PHP_EOL instead

Control structures: conditional statements

The general format of conditional statements is very similar but not identical to that in Java and Perl:

Assignment Project Exam Help | elseif (condition) { | statements |

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- the elseif-clauses is optional and there can be more than one Note: As affiliste to Claim DOWCOGET
- the else-clause is optional but there can be at most one
- in contrast to Perl, the curly brackets can be omitted if there is only a single statement in a clause

Control structures: conditional statements/expressions

 PHP allows to replace curly brackets with a colon: combined with an endif at the end of the statement:

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```
elseif (condition):
statements

else:
https://powcoder.com
```

This also works for the switch statement in PHP

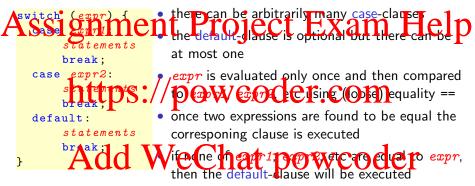
However this sintal vectors are used and is best avoided

PHP also supports conditional expressions

```
condition ? if\_true\_expr : if\_false\_expr
```

Control structures: switch statement

A switch statement in PHP takes the following form



- break 'breaks out' of the switch statement
- if a clause does not contain a break command, then execution moves to the next clause

Switch statements

Control structures: switch statement

Example:

```
switch ($command) {
 ssignment Project Exam Help
 case "South":
   $y -= 1; break;
       tps://powcoder.com
   $x += 1; break;
 case "Search":
   else
        "Nothing here\n";
   break:
 default:
   echo "Not a valid command\n"; break;
```

Control structures Switch statements

Control structures: switch statement

Not every case-clause needs to have associated statements

```
Example:
 ssignment Project Exam Help
        case 10:
               case 12:
   days = 31;
         s://powcoder.com
   davs = 30;
   break:
 **Add: WeChat powcoder
   break:
 default:
   days = 0;
   break;
```

Control structures: while- and do while-loops

• PHP offers while-loops and do while-loops

```
Assignment Project Exam Help
```

```
* while the property power der.com
```

 As usual, curly brackets can be omitted if the loop consists of only one statement

Example: Add WeChat powcoder

Control structures For-loops

Control structures: for-loops

• for-loops in PHP take the form

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Again, the curly brackets are not required if the body of the loop only consist of the body of the body of the loop only consist of the body of the bod

 In PHP initialisation and increment can consist of more than one statement, separated by commas instead of semicolons


```
for ($i = 3, $j = 3; $j >= 0; $i++, $j--)
echo "$i_-\$j_-\", $i*$j, "\n";

3 - 3 - 9
4 - 2 - 8
5 - 1 - 5
```

Control structures For-loops

Control structures: break and continue

 The break command can also be used in while-, do while-, and for-loops and discontinues the execution of the loop

```
Assignmenty Project Exam Help
```

• The chittees mand so we so determined the country iteration of a loop and moves the execution to the next iteration

Functions

Functions are defined as follows in PHP:

```
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```

- Functions can be placed anywhere in a PHP script but preferably they should all the placed at start of the script lor at the end of the script)

 • Function names are case-insensitive
- The function name must be followed by parentheses
- A function this erowice management that are variables
 Parameters can be given a default value using

```
param = const_expr
```

 When using default values, any defaults must be on the right side of any parameters without defaults

Functions

Functions are defined as follows in PHP:

```
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```

- The return statement
 - can be used by terminate the execution of a function and to make value the return value of the function
- The return value does not have to be scalar value
 A function and contain return statement of the statement
- Different return statements can return values of different types

Calling a function

A function is called by using the function name followed by a list of arguments in parentheses

Assignment Project Exam Help \dots identifier(arg1, arg2,...) \dots

- The list of parameters posterior of the list of parameters
- If it is shorter, then default values must have been specified for the parameters without corresponding arguments

 Cample Add WeChat powcoder

function sum(\$num1,\$num2) {

```
return $num1+$num2;
echo "sum: , , sum (5,4), "\n";
sum = sum(3,2);
```

Variables

PHP distinguishes three categories of variables:

- Assitgment Project Exam Help
 - Global variables are accessible everywhere in the code
 - Static hartales are local parables within their value between separate calls of the function

By default verables in Perl are by default global)

By default provided COCCT (Variables in Perl are by default global)

PHP functions: Example

```
function bubble_sort($array) {
 // $array, $size, $i, $j are all local
                 t<sup>o</sup>Project ExameHelp
 $size = count($array);
 for ($i=0; $i<$size; $i++) {</pre>
   return $array;
functio Adds a We Chat powcoder
 // swap expects a reference (to an array)
 $tmp = $array[$i];
 $array[$i] = $array[$i];
 $array[$i] = $tmp;
```

PHP functions: Example

```
function bubble_sort($array) {
                                                         ... swap($array, $j, $j+1); ...
Assignment Project Exam Help
                            function swap(&$array, $i, $j) {
                                                      $tmp $\fip \farray[\fi]/; \powcoder.com $\fip \farray[\fi] = \frac{\fint p \footnote{\fint p \fint p \fint p \fint p \fint p \fint \fint p \fint \fint \fint p \fint \fi
                            \frac{1}{3} = \frac{1}
                            echo "Beard arthy "e folh "at", prowcoder sorted a content of the 
                            echo "After sorting ", join(", ",$array), "\n";
                            echo "Sorted array ", join(", ",$sorted), "\n";
                            Before sorting 2, 4, 3, 9, 6, 8, 5, 1
                            After sorting 2, 4, 3, 9, 6, 8, 5, 1
                            Sorted array 1, 2, 3, 4, 5, 6, 8, 9
```

Functions and global variables

A variable is declared to be global using the keyword global

- an otherwise local variable is made accessible outside its normal scop using 1001/20 hat now coder
- → all global variables with the same name refer to the same storage location/data structure
- → an unset operation removes a specific variable, but leaves other (global) variables with the same name unchanged

PHP functions and Global variables

```
function modify_or_destroy_var($arg) {
         global $x, $y;
     ssignment Project Exam: Help
x = 2; y = 3; z = 4;
echo "1: \x = \x, \y = \y, \z = \z\n";
1: $x =https://powcoder.com
echo "2: \s = \x, \y = \y, \z = \z\n";
PHP Notice: Undefined variable: z in script on line 9
2: $x = A. $\dog \frac{3}{2}\dog \frac{1}{2}\dog \frac{1}{2}\d
echo "3: \x = x, \y = y\n";
3: $x = 6, $y = 3
modify_or_destroy_var(true);
echo "4: \x = x, \y = y\n";
PHP Notice: Undefined variable: x in script on line 4
4: $x = 6, $y = 3
```

PHP functions and Static variables

• A variable is declared to be static using the keyword static and should be combined with the assignment of an initial value (initialisation)

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```
1 function counter() { static $count = 0; return $count++; }
2 $counter() { DOWCOGET.COM
3 echo "1: global $count = $count\n";
4 echo "2: static \$count = ",counter(),"\n";
5 echo "3: static \$count = ",counter(),"\n";
6 echo "A: global $count = 5
2: static $count = 0
3: static $count = 1
4: global $count = 5
```

Functions and HTML

 It is possible to include HTML markup in the body of a function definition

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• A call of the function will execute the PHP scripts, insert the output into the HTML markup, then output the resulting HTML markup

Functions with variable number of arguments

The number of arguments in a function call is allowed to exceed the number of its parameters

other parameter dispersely specifies the minimum characters are the parameters are the pa

Sterente por proper interpretation of the state of the st

- returns the number of arguments passed to a function
- returns the specified argument, or FALSE on error
- array func_get_args()

returns An array with copies of the arguments passed to a function

```
function sum() { // no minimum number of arguments
  if (func_num_args() < 1) return null;
  $sum = 0;
  foreach (func_get_args() as $value) { $sum += $value; }
  return $sum;
}</pre>
```

Including and requiring files

It is often convenient to build up libraries of function definitions, stored in one or more files, that are then reused in PHP scripts

PHT ipovides the contract the Jointent of a file into a PHF scrip

```
include 'mylibrary.php';
```

- PHP chit in alignary/file must be enclosed by this call this tart tag <?php and all end PHP tag?>
- The incorporated content inherits the scope of the line in which an
- If no absolute or relative parts is specific properties of the file
 - first, in the directories in the include path include_path
 - second, in the script's directory
 - third, in the current working directory

Including and requiring files

 Several include or require commands for the same library file results in the file being incorporated several times

Several include once or require once commands for the same

- Severa include_once or require_once commands for the same library file results in the file being incorporated only once
- If a libitary file requested by include and include once cannot be found, PHP generates a warning but continues the execution of the requesting script
- If a library file requested by require and require_once cannot be found, All represents a company of the requesting script

PHP Libraries: Example

mylibrary.php

```
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return $array;

function to par / */powcoder.com

...

?
?>
```

example. Add WeChat powcoder

```
<?php
require_once 'mylibrary.php';
$array = array(2,4,3,9,6,8,5,1);
$sorted = bubble_sort($array);
?>
```

Revision

Read

• Chapter 4: Expressions and Control Flow in PHP

Assitgniffentio Project Exam Help Chapter 7: Practical PHP

of

R. Nixorhttps://powcoder.com Learning PHP, MySQL, and JavaScript.

O'Reilly, 2009.

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