Assignment COMP284 Scripting Languages Help Handouts

https://eduassistpro.github.

Department of Computer Add We hive mative edu\_assist\_pr

#### Contents

# Assignment Project Exam Help

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Aphttps://eduassistpro.github.

TypeAdd WeChat edu\_assist\_predictions of the state of the

Type juggling and Type casting Comparisons

PHP Motivation

#### Common Gateway Interface — CGI

The Common Gateway Interface (CGI) is a standard method for web servers to use external applications, a CGI program, to dynamically

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form, and sends it to a web server

- 2 The w convhttps://eduassistpro.github.
- the program's response back to the client

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PHP Motivation

## Disadvantages of CGI/Perl

 A distinction is made between static web pages and dynamic web pages created by an external program

Assignment direction and Help dynamic content to a web page

- can be a
- \* Use of https://eduassistpro.github.
  - exchanging data between web server and external p

## ~ resource-intensit WeChat edu\_assist\_pr

If our main interest is the creation of dynamic web pages, then the scripting language we use

- should integrate well with HTML
- should not require a web server to execute an external program

Overview Features

#### PHP

• PHP is (now) a recursive acronym for PHP: Hypertext Preprocessor

# A See open that the distribution of the Configuration of the Configurati

- Devel
- Inheri https://eduassistpro.github.
- Easy-to-use interface to databases
- Free, option-stude WeChat edu\_assist\_pre-
- Negatives: Inconsistent, muddled API; no scalar objects
- The departmental web server uses PHP 5.6.25 (released August 2014) PHP 7 was released in December 2015 (PHP 6 was never released)

Overview Features

## PHP processing

• Server plug-ins exist for various web servers

avoids the need to execute an external program

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PHP satis

# Processi https://eduassistpro.github.

- 1 The web server receives a client request
- The web server recognizes that the thie course i assist\_property and the page containing PMP code
- 3 The server executes the PHP code, substitutes output into the HTML page, the resulting page is then send to the client

As in the case of Perl, the client never sees the PHP code, only the HTML web page that is produced

Applications

### PHP: Applications

Overview

- Applications written using PHP
  - activeCollab
     Project Collaboration Software

# Assing immerit Project Exam Help

http://drupal.org/home

https://eduassistpro.github.

http://www.mediawiki.org/wiki/Me

- http://dd...weening Environment (VLE) assist\_pr
- Sugar Customer Relationship Management (CRM) platform http://www.sugarcrm.com/crm/
- WordPress Blogging tool and CMS http://wordpress.org/

Overview Applications

#### PHP: Websites

- Websites using PHP:
  - Delicious social bookmarking

# Assing remient Project Exam Help http://digg.com

htt https://eduassistpro.github.

http://www.flickr.com

http://www.driese.edu\_assist\_pr

- SourceForge web-based source code repository http://sourceforge.net/
- Wikipedia collaboratively built encyclopedia http://www.wikipedia.org

#### Recommended texts

R. Nixon:

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(or lanttps://eduassistpro.github.

• M. Achour, F. Betz, A. Dovgal, N. Lopes,
H. Magnussin, W. Richtmat Course, assist\_presentation.

PHP Documentation Group, 2018.

http://www.php.net/manual/en/index.php

#### PHP: Hello World!

```
<html>
 <head><title>Hello World</title></head>
3 <body>
Assignment Project Exam Help
   print ("<b>Hello_World!</b>\n");
7 ?>
* </bod/>https://eduassistpro.github.
• File must be stored in a directory accessible by the web
```

- example \$HOME (public\_html, and be reada.)

  File name of the back have the steer at the control of the control

```
Hello World - Google Chrome
Hello World
      C ↑ Swww.csc.liv.ac.uk/~ullrich/COMP284/examples/hello_world.php ☆ S A A
Our first PHP script
Hello World!
```

#### PHP: Hello World!

Since version 4.3.0, PHP also has a command line interface

```
4 sing https://eduassistpro.github.
```

- PHP code still needs to be enclosed between <?php and ?>
- Code must be stored in an executable file
   File name deed not need to have any particular assist\_preductions.
- → PHP can be used as scripting language outside a web programming context

#### Output:

Hello World!

#### PHP: Hello World!

```
<html>
<head><title>Hello World</title></head>
<body>Our first PHP script

</pre
```

- Can ahttps://eduassistpro.github.
- File does not need to exectuable, only readable for the Output:  $Add \ WeChat\ edu\_assist\_pr$

```
<html>
<head><title>Hello World</title></head>
<body>Our first PHP script
<b>Hello World!</b>
</body></html>
```

Overview Applications

#### PHP scripts

 PHP scripts are typically embedded into HTML documents and are enclosed between <?php and ?> tags

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- Stat
- \* thhttps://eduassistpro.github.
- One
- Multi-line comments are enclosed in /\* a

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### **Types**

PHP has eight primitive types

## Assignment Project. Exam Help

- <u>int</u> integers
- flo
- str https://eduassistpro.github.

object

- objects

- Integer float ng-point rember part steep the assist prom the corresponding Perl scalars, including the single-quoted versus double-quoted strings
- In contrast to Perl, PHP does distinguish between different types including between the four scalar types

#### **Variables**

- All PHP variable names start with \$ followed by a PHP identifier
- A PHP identifier consists of letters, digits, and underscores, Help

  A Stagnation of letters, digits, and underscores, Help

  PHP identifiers are case sensitive
  - In PHP
  - A vari https://eduassistpro.github. although initialisation is a good idea
  - Uninitialized variables have a default value of their the context of which the case useful the Case useful the context of their their

Type	Default	Type	Default
<u>bool</u>	FALSE	string	empty string
<u>int/float</u>	0	array	empty array

If there is no context, then the default value is NULL

#### Assignments

• Just like Java and Perl, PHP uses the equality sign = for assignments

```
Assignment expression is the value assigned

**student_id = 200846369;

Assignment expression is the value assigned

**The value of an assignment expression is the value assigned
```

```
*b = ($a = 0) + 1;
// $ahttps://eduassistpro.github.
```

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## Binary assignments

PHP also supports the standard binary assignment operators:

```
Assign Ringry assign Professional Help
      https://eduassistpro.github.
          Example: Add WeChat edu_assist_pr
 // Convert Fahrenheit to Celsius:
 // Subtract 32, then multiply by 5, then divide by 9
 $temperature = 105;
                       // temperature in Fahrenheit
 $temperature -= 32;
```

\$temperature \*= 5/9;

// converted to Celsius

#### Constants

- bool define(string, expr [, case\_insensitive])
- defines a constant that is globally accessible within a script ssignment Project Exam Help (preferably all upper-case) The PHP identifier is the name of the constant

  - cas https://eduassistpro.github.
    - returns TRUE on success or FALSE on failure

define ("SPEED\_OF\_LIGHT", 299792458, true); \_\_assist\_pr

#### Constants

To use a constant we simply use its name

```
define("PI",3.14159);
ssignment Project Exam Help
          speed_of_light * $time;
$distance
```

Cavea https://eduassistpro.github. "1 - Value of PI: PI\n";

```
print "2 - Value of PI: ".PI."\n";
```

- 1 VaAredt PIWeChat edu\_assist\_pr

### Values, Variables and Types

PHP provides several functions that explore the type of an expression:

```
string gettype(expr)

The clay letter expr as string

The clay letter expr is of per type C
                          displays structured information about expr
 void var_dump(expr)

    https://eduassistpro.github.

      print "Type of \"23\": ".gettype("23")."\n";
      iAGGt (Weech at ien Utegassist_pressure ease { echo "23 is not an integer \n"; }
?>
Type of 23: integer
Type of 23.0: double
Type of "23": string
```

23 is an integer

## Type juggling and Type casting

 PHP automatically converts a value to the appropriate type as required by the operation applied to the value (type juggling)

```
Assignment Project Exam Help
```

"1.2

"10h https://eduassistpro.github.

PHP also supports explicit type casting via

```
(int) Arada WeClaat (edu_assistant)
(int) ("1.23e2" + 0)
                    123
                         (float) "1.23e2"
(int) "10hello5"
                    10
```

10

(int) 10.5 (array) "foo" array(0 => "foo")

## Comparison operators

Type juggling also plays a role in the way PHP comparison operators work:



Note: For and compared numerically hat the edu\_assist\_pr

```
"123" == 123
                            TRUE
                                       "123" === 123
                                                                    FALSE
                            FALSE
"123" != 123
                                       "123" !== 123
                                                                    TRUE.
"1.23e2" == 123
                            TRUE
                                       1.23e2 === 123
                                                                    FALSE
"1.23e2" == "12.3e1"
                            TRUE
                                       "1.23e2" === "12.3e1"
                                                                    FALSE
```

TRUE.

COMP284 Scripting Languages

5 == TRUE

Lecture 9

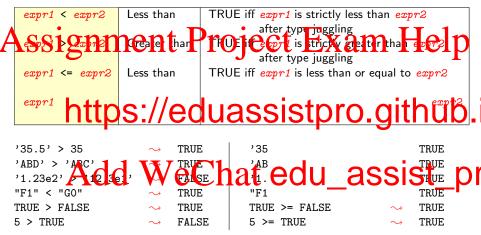
5 === TRUE

Slide L9 – 21

FALSE.

## Comparison operators

Type juggling also plays a role in the way PHP comparison operators work:



## Revision

Read

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R. Nixe https://eduassistpro.github.lo'Reilly, 2009.

## Also read Add WeChat edu\_assist\_pr

- http://uk.php.net/manual/en/language.types.intro.php
- http://uk.php.net/manual/en/language.types.type-juggling.php
- http://uk.php.net/manual/en/language.operators.comparison.php
- http://uk.php.net/manual/en/types.comparisons.php