**Introduction to PHP**

**Part 1 of 2**

**References**

* PHP 5.6.1 Released Oct. 2, 2014, <http://php.net/>
* PPH Documentation, <http://php.net/urlhowto.php>
* PHP Language Reference, <http://php.net/manual/en/langref.php>
  + Basic Syntax
  + Types
  + Variables
  + Constants
  + Expressions
  + Operators
  + Control Structures
  + Functions
  + Classes and Objects
  + Namespaces
  + Exceptions
  + Predefined Variables
    - $Superglobals // Bulit-in variables that are always available in all scopes
    - $GLOBALS // All variables available in global scope
    - $\_SERVER // Server and execution environment info
    - $\_GET // HTTP GET variables
    - $\_POST // HTTP POST variables
    - $\_FILES // HTTP file upload variables
    - $\_REQUEST // HTTP request variables
    - $\_SESSION // Session variables
    - $\_ENV // Environment variables
    - $\_COOKIE // HTTP cookies
    - $php\_errormsg
    - $HTTP\_RAW\_POST\_DATA // Raw POST data
    - $http\_response\_header // HTTP response headers
    - $argc // The number of arguments passed to script
    - $argv // Array arguments passed to script

PHP (HyperText Processor)

PHP Scripts

**Basic Syntax**

<? …. ?> shorthand version of <?php ….?>

<script language = “php”>

….

</script>

**Comments:**

/\* \*/

//

#

**Variables:**

* Always start with the $ symbol
* Examples

$php5 = ‘version’;

$os = “Microsoft Windows Prof 7”;

$this\_int = 50; // Standard decimal notation

$that\_int = 062; // Octal number

$my\_int = 0x32; //Hexadecimal

**Escape Characters in PHP**

|  |  |
| --- | --- |
| Escape String | Meaning |
| \n | New line |
| \r | Carriage return |
| \t | Horizontal tab |
| \\ | Back slash character |
| \$ | $ character |
| \’ | Single quote |
| \” | Double quote |
| \### | ASCII character (octal) |
| \x## | ASCII character (hexadecimal) |

**Variable Manipulation**  
<?php

$sum = 10 + 2; //12

$sum = $sum + 5; //17

$sum = %sum % 2; //1

$answer = 5;

$answer += 2;

$answer \*= 2;

$answer ++;

$answer --;

?>

**PHP Functions/User Defined Functions**

* **echo**
* **unset()**
* **func\_get\_args() // get function arguments**
* **func\_num\_args() // get function argument count**

**String Manipulation Functions**

* **strcmp() // string comparison, case sensitive**
* **strcasecmp() // string comparison, non case sensitive**
* **substr() // the sub string**
* **strlen() // The number of chars in the string**
* **strops() // The character position**
* **chop() // Remove all white spaces from its ends**
* **trim() // remove all white spaces from both ends**
* **strtolower() // covert to lower case characters**
* **strtoupper() // convert to upper case characters**

**Arithmetic Functions**

* **floor(), ceil(), round(), srand(), rand(), abs(), min(), max()**

**Ouput Functions**

* **print()**
* **printf() // formatted output**

<? php

$answer = 10;

echo(++$answer).” “;

echo “$answer<BR>”;

$answer += 10;

echo ($answer++).” “;

echo $answer; ?

unset($answer); //destroy the variable

?>

<?php

%thankyou\_string = “Thank you “;

%thankyou\_string = thankyou\_string . “for your comments!”;

// String concatenation operator period .

?>

**PHP Functions**

* func\_get\_args() // <http://us3.php.net/manual/en/function.func-get-args.php>
* func\_num\_args()

<!DOCTYPE html>

<!—funct\_arguments.php - A trivial example to illustrate a php document -->

<html lang = "en">

<head>

<title> funct\_arguments.php </title>

<meta charset = "utf-8" />

</head>

<body>

<?php

function func\_dynamic() {

echo “ITC 250/CPET 499 Web Systems: “.func\_num\_args(). “Number of arguments.<br>”;

$args = func\_get\_args();

for($i = 0; $i < count($args); $i++{

echo “Passed arguments: {args[$i]} <br>;

}

}

func\_dynamic(5, 4, 3, 2, 1 );

?>

</body>

</html>

**Multiple File PHP Scripts**

include “files.php”; // <http://php.net/manual/en/function.include.php>

include\_once “file.php”; // <http://php.net/manual/en/function.include-once.php>

require (‘library.inc’); // <http://php.net/manual/en/function.require.php>