Eli, the Computer Guy, PHP Tutorials 1-6

PHP Programming Part 1 Introduction to PHP Programming

1. How does Eli describe PHP?

PHP is a great language to learn. Useful for the IT and freelance consultant. It's a wonderful language and easy to learn.

2. Briefly compare and contrast scripted and compiled languages.

Compiled languages use software that when the code is written, it outputs an executable file. After that, the executable file cannot be edited. Scripted languages you upload a text file to a server and then the user can access the file and the software will then process the information and deliver it to the user. You can always use and read a text file where the PHP written at.

3. Briefly explain the difference between client side and server side scripting.

On server side scripting all the process is made at the web server and then output the HTML to the user. On client side the user access the server but all the information gets sent to the user's computer, where all the pass words and info of all the users are at.

4. What popular website does Eli cite as an example of what you can do with PHP and MySQL? Why did Eli that that this particular site was a good example?

Craigslist.com because that website become very useful yet it is not very pretty.

5. What does Eli emphasize as the 'nice' thing about scripted languages such as PHP?

It is server side and it is important for security reasons. PHP access the server the server runs the script and only returns what needs to be seen on the user's computer.

6. What is notepad++? Why does Eli recommend notepad++?

Is like the notepad from windows with a few more features that will help writing the code.

7. If you want to write and run PHP code, what do you need?

A text editor and a web severer with PHP interpreter installed.

8. How does Eli describe syntax?

The smallest mistake can make nothing work. Need to be very careful. Syntax is how you spell your code.

PHP Version 5.4.38

System	Linux yenko.websitewelcome.com 3.12.35.1418868451 #1 SMP Wed Dec 17 20:10:32 CST 2014 x86_64
Build Date	Mar 2 2015 12:24:18
Configure Command	'./configure' '--with-libdir=lib64' '--enable-bcmath' '--enable-calendar' '--enable-dbase' '--enable-exif' '--enable-' '--enable-ftp' '--enable-gd-native-ttf' '--enable-libxml' '--enable-mbstring' '--enable-pdo' '--enable-soap' '--enable-sockets' '--enable-sqlite-utf8' '--enable-wddx' '--enable-zip' '--prefix=/opt/php54' '--with-bz2' '--with-curl' '--with-freetype-dir' '--with-gd' '--with-gettext' '--with-imap=/opt/php_with_imap_client/' '--with-imap-ssl' '--with-mcrypt=/opt/libmcrypt' '--with-kerberos' '--with-jpeg-dir=/usr' '--with-xsl' '--with-mhash' '--with-mssql' '--with-mysql=/usr' '--with-mysql-sock=/var/lib/mysql/mysql.sock' '--with-mysqli=/usr/bin/mysql_config' '--with-openssl' '--with-pdo-mysql=/usr' '--with-png-dir' '--with-pspell' '--with-tidy' '--with-unixODBC=/usr' '--with-xmlrpc' '--with-zlib' '--enable-intl' '--with-gmp' '--with-sqlite'
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/opt/php54/lib
Loaded Configuration File	/opt/php54/lib/php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend Extension Build	API220100525,NTS
PHP Extension Build	API20100525,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled

PHP Programming Part 2 PHP Syntax and Errors

1. In a Linux context, does capitalization matter?

Yes it does. Most servers are linux web servers

2. What are the basic attributes of PHP syntax?

There are also quotation marks that can help with printing and at the end of each statement there has a to be a semicolon telling it to stop reading and go to the next line.

3. Discuss one of the PHP error handling techniques that Eli presents.

PHP will complain about a line number in the file. Sometimes the error may not be on that line, but one after or before.
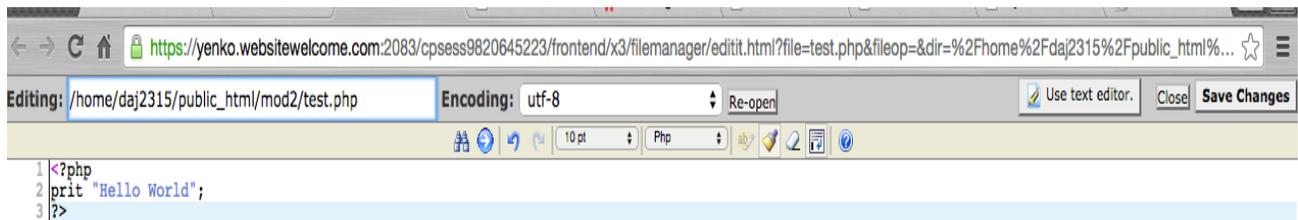
4. What is the difference between printing text and printing HTML?

PHP will print text, and though one may line break with "\n" in a print statement, the browser will honor it. Browser is looking for a " " tag.

5. What happens if you add a PHP script to a HTML page and you don't change the file type to .php from .html?

The web browser can read only a HTML code, and the PHP code is meant for a text viewer. So a HTML tag needs to be used within the PHP code for a web browser to read the print commands accurately. For example if a single print command in the PHP code needs to be split into two lines and displayed on the web browser, a HTML tag "<\br>" needs to be used at the place where

a line break is needed, only then the message will be displayed in two lines in the web browser. If only "\n" command is used, it will be displayed as two lines only in the page source window and not in the web browser window, because a web browser can read HTML tags only. You will probably get an error. Or maybe your PHP code will not be executed.

daj2315.chibana500.com/mod2/test.php

Parse error: syntax error, unexpected '"Hello World"' (T_CONSTANT_ENCAPSED_STRING) in **/home/daj2315/public_html/mod2/test.php** on line **2**

https://yenko.websitewelcome.com:2083/cpsess9820645223/frontend/x3/filemanager/editit.html?file=test.php&fileop=&dir=%2Fhome%2Fdaj2315%2Fpublic_html%...

Editing: /home/daj2315/public_html/mod2/test.php   Encoding: utf-8   Re-open   Use text editor.   Close   Save Changes

10 pt   Php

```
1 <?php
2 prit "Hello World";
3 ?>
```

PHP Programming Part 3 Comments and INCLUDE in PHP Programming

1. What are the three ways that you can make comments in PHP?

· Single line comment //
· Single line comment #
· Multi-line comment with start /* and ending */

2. What is the PHP include function? Why is it useful?

Functions are useful small programs that does something for you. Example, mail function. Include functions grabs all codes from another files and includes it in the current file. It also gets interpreted if the document has php codes.

```
File  Edit  Search  View  Encoding  Language  Settings  Macro  Run  Plugins  Window  ?
```
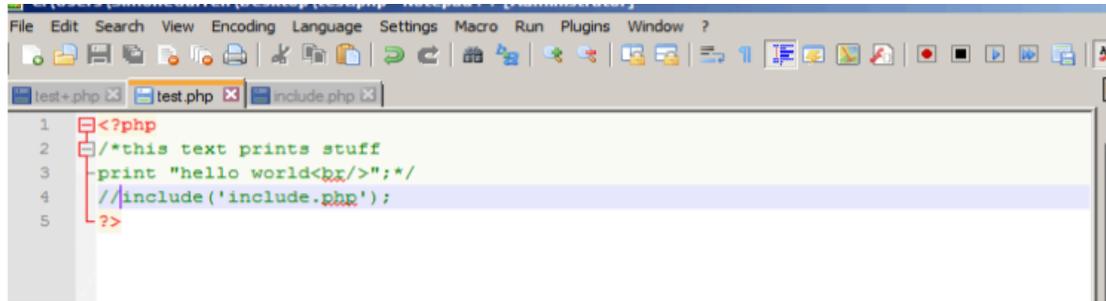
```
 1   <?php
 2   /*this text prints stuff
 3   -print "hello world<br/>";*/
 4   //include('include.php');
 5   ?>
```

PHP Programming Part 4 Variables in Print in PHP Programming

1. What are the three types of PHP variables that Eli discusses?

Strings, Integers, and Arrays

2. What naming rules apply to PHP variables?

Variables must start with dollar sign. Then it has to follow by a letter or underscore. Case matters in variables

3. Compare and contrast the html <br> tag in HTML and the \n in PHP.

 is a client side break, the user will actually see a break. \n will also line break, but only in the code view. To the user, the break will not show up.

PHP Programming Part 5 HTML Forms and PHP Programming

1. What does it mean when Eli says that HTML creates static pages while PHP creates dynamic pages?

HTML has no dynamics. What you see is what you get. PHP makes it dynamic, contents on the same page may change depending on variables or what the user selects.

2. In this exercise, you will use an HTML Textbox, an Option Box, and a Radio Button. Compare and contrast each of these input methods.

Textbox enables users to key in text. Option box restricts the choices down to a list of choices. Radio button pretty much does the same as option box, except all the choices are visible. Radio button usually has less choices than option box

PHP Programming Part 6 Printing to Files with PHP

1. In this example, you use the PHP file_put_contents() function. Briefly describe this function. Hint: Consult W3Schools or the PHP manual.

Example #1

```php
<?php

echo file_put_contents("test.txt.","Hello World. Testing!");

?>
```

Example #2

```php
<?php
    $file = 'people.txt';
// Open the file to get existing content
    $current = file_get_contents($file);
// Append a new person to the file
    $current .= "John Smith\n";
// Write the contents back to the file
    file_put_contents($file, $current);
?>
```

2. What is a CSV file? Why would you want to use one?

CSV file is a type of file. It means Comma Separated Values and this is a standard way of storing data. Because to open data in Excel or similar programs.

#1 Email Address:

```
1  <html>
2  <head>
3  </head>
4  <body>
5
6  <form action="email_script.php" method="POST">
7
8  <p>Email Address: <input type="text" name="email" size="30"/></p>
9
10 <input type="submit" name="submit" value="Submit"/>
11
12
13 </body>
14 </html>
15
```

```
1  <?php
2
3  $email = $_POST['email'];
4  $file = "file.html";
5
6  file_put_contents($file, $email . PHP_EOL, FILE_APPEND);
7
8  print "Thank you for submitting your email address!";
9
10 ?>
11
12
```

#2 Email Address and Name

Name: [   ]

Email Address: [   ]

Submit

```
1  <html>
2  <head>
3  </head>
4  <body>
5
6  <form action="email_script.php" method="POST">
7
8  <p>Name: <input type="text" name="name" size="30"/></p>
9  <p>Email Address: <input type="text" name="email" size="30"/></p>
10
11 <input type="submit" name="submit" value="Submit"/>
12
13
14 </body>
15 </html>
```

```php
<?php

$email = $_POST['email'];
$name = $_POST['name'];
$data = $name . "," . $email;
$file = "file.csv";

file_put_contents($file, $data . PHP_EOL, FILE_APPEND);

print "Thank you for submitting your email address!";

?>
```

	A	B
1	Name	Email Address
2	Robert Jones	Jones@bob.com
3	Billy Bob	bob@bob.com

file.csv