

PHP Server-side Scripting

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. PHP code is [interpreted](#) by a web server with a PHP processor module, which generates the resulting web page.

Input the following PHP code samples and implement a php index file that uses php to generate a link to all of the these examples.

php01.php (Change the HTML that is written by PHP.)

```
<?php
echo "<html>\n";
echo "<head>\n";
echo "<title>HTML written out by PHP </title>\n"; //This text appears in the header of
the window
echo "</head>\n";
echo "<body>\n";
echo "<p>This was written in HTML from a PHP script</p>\n"; //This text is written out
echo "</body>\n";
echo "</html>\n";
?>
```

php02.php (Change the JavaScript function.)

```
<?php
echo "<html>";
echo "<head>";
echo "<SCRIPT LANGUAGE=\"JavaScript\">"; //Start the JavaScript function
echo "function square(number) { ";
echo "    return number*number} ";
echo "    </SCRIPT> ";
echo "</head>";
echo "<body>";
echo "<SCRIPT> document.write('The square of 16 is ', square(16),'.') </SCRIPT>";
echo "</body>";
echo "</html> ";
?>
```

php03.php (Concatenate a different series of variables.)

```
<html>
<?php

    $text = "A screen with a 1024 x 768 resolution has "; // text string
    $number = 1024 * 768; // calculate total pixels
    $msg = $text . $number . " pixels."; //concatenate elements
    echo $msg; //write out sentence
    $english_format_number = number_format($number); // format number
    $msg = "<p>" . $text . $english_format_number . " pixels."; // concatenate
    echo $msg; //write out sentence again
?>
</html>
```

php04.php (Change the loop parameters so that it either executes more steps, or results in different calculations.)

```
<?php
$j = 10;
for ($i=0; $i<5; $i++)
{
    $j += $j;
    echo "<br>The value of j is: ", $j;
}
?>
```

php05.php (Change the loop parameters so that it either executes more steps, or results in different calculations.)

```
<?php
$myCount = 0;
$j = 10;
while ( $myCount <= 50 )
{
    echo "<br>The value of myCount is: ", $myCount;
    $myCount = $myCount + $j;
}
?>
```

php06.php (Change the if conditional statement.)

```
<?php
$a = 10;
$b = 20;
if ($a > $b) {
    echo "$a is bigger than $b";
}else{
    echo "$b is bigger than $a";}
?>
```

php07.php (Change the number of times that the *for* loop calculates a random number. Does the average of the random numbers get closer to five as the loop is executed more times?)

```
<?php
$a = rand(0,10);
if ($a >= 5) {
    echo "The random number $a which is greater than 5";
}else{
    echo "The random number $a which is less than 5";};
for ($i=0; $i <= 1000; $i++) { //start a loop that executes 1000 times
    $total = $total + rand(0,10); }
echo "<br>The average of 1000 random numbers between 0 and 10 is: ", $total/1000;
echo ". This number should be close to 5";
?>
```

php08.php (Search for "PHP Date Function parameters" and change how the time and date are written.)

```
<html>
<head>
<title>PHP Date example</title>
</head>
<font face="Arial" color="#FF00FF"><strong>
<?
print(Date("m/j/y")); // Writes date as 03/25/12
echo "<p>";
print(Date("D M j G:i:s T Y")); // Sat Mar 10 17:16:18 MST 2012
?>
</strong></font>
<body>
</body>
</html>
```