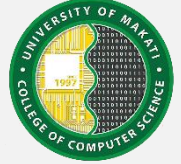




University of Makati
College of Computer Science



Web System and Technologies

UNIVERSITY OF MAKATI

College of Computer Science

Laboratory Exercise 2. PHP Basic

Group Name: 2

Team Leader: MEJILLANO, Bea Bianca R.

Members:

BUENO, Revin

GENERAIO, Jonas

Submitted to: Prof. Michael C. Olivo

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I. INTENDED LEARNING OUTCOMES

At the end of this exercise, students should be able to:

1. Learn the basics of PHP scripting language
2. Illustrate the various string functions.
3. Demonstrate the use of variables and syntax
4. Apply rules for naming variables

II. OVERVIEW

The **PHP Hypertext Preprocessor (PHP)** is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications. This tutorial helps you to build your base with PHP.

Why to Learn PHP?

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. I will list down some of the key advantages of learning PHP:

- PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
- PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
- It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
- PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.
- PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures

(COM and CORBA), making n-tier development a possibility for the first time.

- PHP is forgiving: PHP language tries to be as forgiving as possible.
- PHP Syntax is C-Like.

Characteristics of PHP

Five important characteristics make PHP's practical nature possible –

- Simplicity
- Efficiency
- Security
- Flexibility
- Familiarity

Hello World using PHP.

Just to give you a little excitement about PHP, I'm going to give you a small conventional PHP Hello World program, You can try it using Demo link.

```
<html>

<head>
  <title>Hello World</title>
</head>

<body>
  <?php echo "Hello, World!";?>
</body>

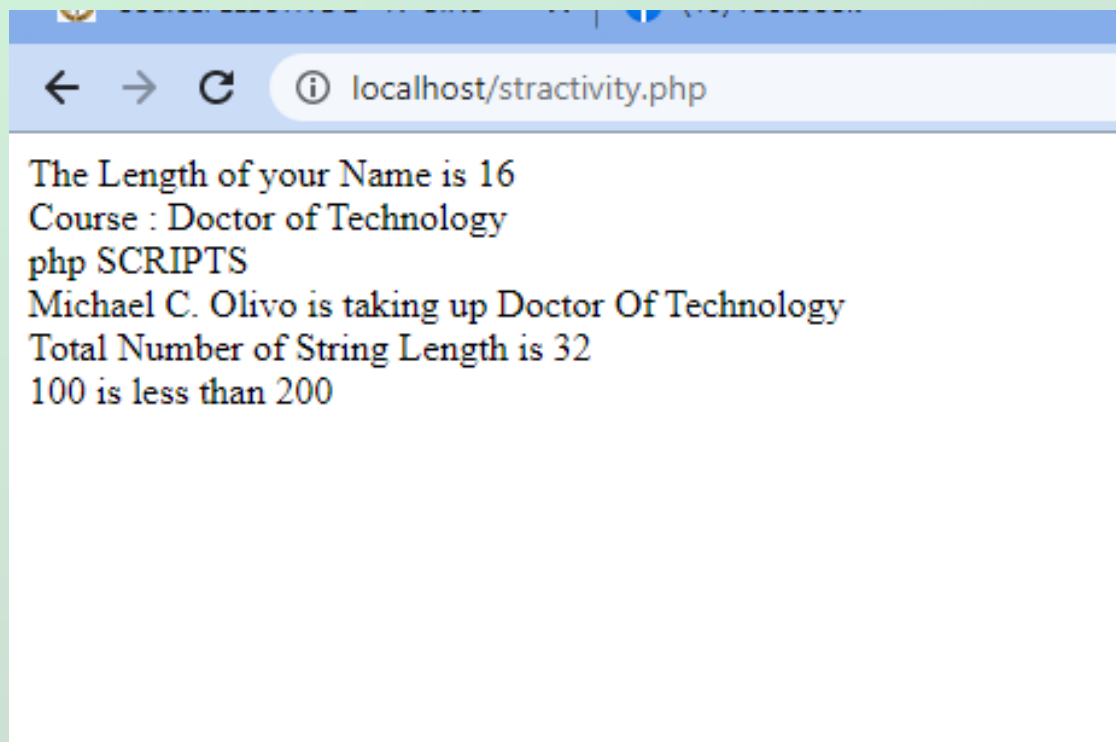
</html>
```

III. ACTIVITY

Write a PHP program based on the given output.

1. Count the total string length of your full name
2. Display the capital letter of the first word
3. Convert the string "\$C" to lowercase and string "\$D" to uppercase
4. Display the string "\$M", "\$A", "\$B"
5. Count the total string length of "\$A", "\$B", "\$C", "\$D"
6. Display the string "\$W", "\$Z"

Sample Output:



Sample Declaration of string:

```
$A = "doctor of ";  
$B = "technology";  
$C = "PHP ";  
$D = " scripts";  
$M = "Michael C. Olivo";  
$W = "100";  
$Z = "200";
```

1. Attach source code

```
<?php
// Your full name
$fullName = "Revin R. Bueno";

// Count the total string length of your full name
$totalLength = strlen($fullName);

// Display the capital letter of the first word
$firstWordCapital = strtoupper(substr($fullName,
0, 1));

// Strings to convert
$C = "php";
$D = "SCRIPTS";

// Convert $C to lowercase and $D to uppercase
$C = strtolower($C);
$D = strtoupper($D);

// Strings $M, $A, $B
$M = "Revin R. Bueno";
$A = "Student of";
$B = "University of Makati";

// Count the total string length of $A, $B, $C, $D
$totalStringLength = strlen($A) + strlen($B) +
strlen($C) + strlen($D);

// Strings $W and $Z
$W = "100 less than";
$Z = "200";

// Display the total string length
echo "Total String Length of Full Name:
$totalLength<br>";

// Display the capital letter of the first word
echo "Capital Letter of the First Word:
$firstWordCapital<br>";

// Display the strings $C, $D
echo "$C<br>";
echo "$D<br>";

// Display the strings $M, $A, $B
echo "$M ";
echo "$A ";
echo "$B<br>";

// Display the total string length
echo "Total String Length of \$A, \$B, \$C, \$D is:
$totalStringLength<br>";

// Display the strings $W and $Z
echo "$W ";
echo "$Z<br>";

?>
```

```
<?php
// Your full name
$fullName = "Jonas G. Generao";

// Count the total string length of your full name
$totalLength = strlen($fullName);

// Display the capital letter of the first word
$firstWordCapital = strtoupper(substr($fullName,
0, 1));

// Strings to convert
$C = "php";
$D = "SCRIPTS";

// Convert $C to lowercase and $D to uppercase
$C = strtolower($C);
$D = strtoupper($D);

// Strings $M, $A, $B
$M = "Jonas G. Generao";
$A = "Student of";
$B = "University of Makati";

// Count the total string length of $A, $B, $C, $D
$totalStringLength = strlen($A) + strlen($B) +
strlen($C) + strlen($D);

// Strings $W and $Z
$W = "100 less than";
$Z = "200";

// Display the total string length
echo "Total String Length of Full Name:
$totalLength<br>";

// Display the capital letter of the first word
echo "Capital Letter of the First Word:
$firstWordCapital<br>";

// Display the strings $C, $D
echo "$C<br>";
echo "$D<br>";

// Display the strings $M, $A, $B
echo "$M ";
echo "$A ";
echo "$B<br>";

// Display the total string length
echo "Total String Length of \$A, \$B, \$C, \$D:
$totalStringLength<br>";

// Display the strings $W and $Z
echo "$W ";
echo "$Z<br>";
```

```
<?php
// Your full name
$fullName = "Bea Bianca R. Mejiliano";

// Count the total string length of your full name
$totalLength = strlen($fullName);

// Display the capital letter of the first word
$firstWordCapital = strtoupper(substr($fullName,
0, 1));

// Strings to convert
$C = "php";
$D = "SCRIPTS";

// Convert $C to lowercase and $D to uppercase
$C = strtolower($C);
$D = strtoupper($D);

// Strings $M, $A, $B
$M = "Bea Bianca R. Mejiliano";
$A = "Student of";
$B = "University of Makati";

// Count the total string length of $A, $B, $C, $D
$totalStringLength = strlen($A) + strlen($B) +
strlen($C) + strlen($D);

// Strings $W and $Z
$W = "100 less than";
$Z = "200";

// Display the total string length
echo "Total String Length of Full Name:
$totalLength<br>";

// Display the capital letter of the first word
echo "Capital Letter of the First Word:
$firstWordCapital<br>";

// Display the strings $C, $D
echo "$C<br>";
echo "$D<br>";

// Display the strings $M, $A, $B
echo "$M ";
echo "$A ";
echo "$B<br>";

// Display the total string length
echo "Total String Length of \$A, \$B, \$C, \$D is:
$totalStringLength<br>";

// Display the strings $W and $Z
echo "$W ";
echo "$Z<br>";

?>
```

2. Sample Output

```
Total String Length of Full Name: 14
Capital Letter of the First Word: R
php
SCRIPTS
Revin R. Bueno Student of University of Makati
Total String Length of $A, $B, $C, $D is: 40
100 less than 200
```

```
Total String Length of Full Name: 16
Capital Letter of the First Word: J
php
SCRIPTS
Jonas G. Generao Student of University of Makati
Total String Length of $A, $B, $C, $D: 40
100 less than 200
```

```
Total String Length of Full Name: 23
Capital Letter of the First Word: B
php
SCRIPTS
Bea Bianca R. Mejiliano Student of University of Makati
Total String Length of $A, $B, $C, $D is: 40
100 less than 200
```

IV. CONCLUSION:

In conclusion, the PHP script we have created successfully performed a series of basic string operations, providing us with specific outputs based on the given tasks. We counted the total string length of a full name, displayed the capital letter of the first word, converted strings "\$C" to lowercase and "\$D" to uppercase, and displayed the strings "\$M," "\$A," and "\$B." Additionally, we calculated the total string length of "\$A," "\$B," "\$C," and "\$D" collectively.

Furthermore, we displayed the strings "\$W" and "\$Z." These tasks collectively demonstrated fundamental string manipulation techniques in PHP, showcasing how we can extract, transform, and display various elements of strings. These skills are essential for more complex programming tasks and can serve as a foundation for building more advanced PHP applications.

V. REFERENCE/s

RUBRICS:

Activity 1-6 Correct Output	60%
Conclusion	20%
Screen Shot and References	20%
Total	

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