

ITSE 2302 – Program 05

All of the assignments in this course must be uploaded to Bb **and** *published to your student website*. Use the numbered list below **and** the Common Requirements as a confirmation checklist.

- Complete the steps described at the Website Setup & Publishing link in the “Assignments” section in Bb.
- Use the course material located at:
 - [HTML Tutorial](#) , [CSS Tutorial](#) , [JavaScript Tutorial](#) , [PHP Tutorial](#)
- Program 05 can be completed using content from these tutorial sections:
 - HTML HOME – PHP Strings
- Develop the page/site for your user – Communicate with your user.

Requirements (remember to identify the requirements by #number):

Note: the requirements below refer to the index.php within the program-## folder unless otherwise stated.

1. The Program 05 link on your top-level page should open an index.php page in the program-05 folder which displays an h1 using PHP code containing “Welcome to PHP!” Set a variable to the value of your name and display that as an h2. Display the results of $\$x = \pi * (33(\text{squared}))$ in an h3.
2. Demonstrate the use of:
 - a. 4 local (2 numeric and 2 string) variables
 - b. 4 global (2 numeric and 2 string) variables
 - c. 2 static variables
 - d. Remember to message the operations to the user
3. Create a class named DaysOfWeek. Include an array of the 7 days of the week as a member of the class. Include a function as a member of the class that when called, displays the contents of the array. Create an object and call the function.
4. Create one string including:
 - a. the sentence “JavaScript and PHP are so much fun!”
 - b. display the length of the string
 - c. display the number of whole words in the string

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- d. search for “PHP” within the string
- e. programmatically replace ‘so much fun’ with ‘wonderful’

Use the PHP string functions [PHP String Reference](#) for the requirements below:

5. Convert the string “JavaScript and PHP are so much fun!” into an array.
6. Convert an array containing the days of the week into a string.
7. Produce 2 sentences of formatted output using the variables from requirement 2.
8. Display the following:
 - a. To see the special characters correctly (items b-d) both locally and on the server, add the following header **above** `<!DOCTYPE html>`:

```
<?php
    header('Content-Type: text/html; charset=iso-8859-1');
?>
```
 - b. a string listing the unique characters used in the string “JavaScript and PHP are so much fun!”
 - c. a string listing the characters not used in the string “JavaScript and PHP are so much fun!”
 - d. an array that uses the ASCII code of each character found as the key and the number of times the character was found as the value
9. Set a variable to the following: “<&ç£¥€©>” and output it as shown to the browser window. Note: Observe what the server sent to the browser by R-clicking the page | View Source. The browser translates the contents as shown in View Source to the displayed version.
10. Randomly shuffle all characters in the string “HTML, CSS, JavaScript, and PHP are so much fun!” Display original and results.
11. Convert the first character of each word in the string “HTML, CSS, JavaScript, and PHP are so much fun!” to lowercase.
12. Output each word of the string “HTML, CSS, JavaScript, and PHP are so much fun!” individually, on a separate line.

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TEST – TEST – TEST your website to ensure the requirements are met.

1. Use the list above **and** the Common Requirements as a confirmation checklist.
2. Not meeting all requirements = 0 points for the assignment.
3. Complete the appropriate Program ## confirmation in Bb by the due date.
4. Upload your .zip file to Bb under the appropriate Program ## link by the due date.
5. Ensure your assignment functions correctly on your student website and that all requirements are identified by “#XX”.
6. Remember to study for the exam. Distributing learning over time is far superior than panic-study in close proximity to the exam date.