



College of Engineering, Construction & Living Sciences  
Bachelor of Information Technology  
IN607: Introductory Application Development Concepts  
Level 6, Credits 15  
**In-Class Activity: PHP In-Built Functions**

## Instructions

The purpose of this in-class activity is to familiarise yourself with in-built functions in **PHP**.

## Code Review

You must submit all program files via **GitHub Classroom**. Here is the URL to the repository you will use for your code review – <https://classroom.github.com/a/P656imf2>. Checkout from the **main** branch to the **03-in-class-activity** branch by running the command - **git checkout 03-in-class-activity**. This branch will be your development branch for this activity. Once you have completed this activity, create a pull request & assign the **GitHub** user **grayson-orr** to a reviewer. **Do not** merge your own pull request.

### Problem 1:

What is a substring? It is a portion of a string, i.e., "Hello" is a substring of "Hello, World!" and "el" is a substring of "Hello". String manipulation is commonly used & working with substrings is something you will do often.

You have been given the following sentence as a single **string**:

"The anemone, the wild violet, the hepatica, and the funny little curled-up ferns all peeped out at us from beneath the brown leaves."

**Output: 5** Use the **substr\_count()** function to return the number of occurrences of the word "the" in the sentence above.

### Problem 2:

Use **echo** & the **strtolower()** function to display the following string in lowercase letters:

**Input:** "YoU aRe dOIIng A GReat jOB!"

**Output:** "you are doing a great job!"

### Problem 3:

Which in-built function repeats a **string**. Please provide the following:

- The name of the function
- Its parameters & parameter descriptions
- Its return value
- A code example using the function

### Problem 4:

In this problem you are going to use the **abs()** function. Write a function called **calc\_dist** that calculates the distance between two **integers**. It does not matter which order the arguments are given, it should still return the same result.

**Input:** `calc_dist(-1, 4)`

**Output:** 5

**Input:** `calc_dist(4, -1)`

**Output:** 5

### Problem 5:

In this problem you are going to use the **round()** function. Write a function called **calc\_tip** which accepts an **integer** representing the total cost of a breakfast meal as its argument. Your function should calculate a new total with a 15% tip added & return that value rounded to the nearest whole **integer**.

**Input:** `calc_tip(100)`

**Output:** 115

**Input:** `calc_tip(35)`

**Output:** 41

### Problem 6:

Which in-built function parses a **string** as if it were the **query string** passed via a URL & sets a variable in the current scope.

- The name of the function
- Its parameters & parameter descriptions
- Its return value
- A code example using the function. Please provide a recommended example & discouraged example.