



College of Engineering, Construction & Living Sciences  
Bachelor of Information Technology  
IN607: Introductory Application Development Concepts  
Level 6, Credits 15  
**In-Class Activity: PHP Basics 1 Extension**

## Instructions

The purpose of this in-class activity is to extend your knowledge. These problems are difficult & will require you to understand & use commonly used in-built **PHP** functions.

## 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 **01-in-class-activity-ext** branch by running the command - **git checkout 01-in-class-activity-ext**. 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:

Write a function called **find\_breed** which accepts an unsorted array of **strings** called **breeds**. Your code needs to search **breeds** for the name "Afghan Hound" & return the location in the array using the **array\_search** function. If "Afghan Hound" is not in **breeds**, return -1.

```
<?php
// Write your solution here

// Expected output:
// find_breed(["Beagle", "Dalmatian", "Afghan Hound"]) => 2
// find_breed(["Dalmatian", "Beagle", "Golden Retriever"]) => -1
?>
```

### Problem 2:

Write a function called **remove\_vowels** which accepts a **string word** & returns a new **string** with all vowels removed using the **preg\_replace** function.

```
<?php
    // Write your solution here

    // Expected output:
    // remove_vowels("Hello, World!") => Hll, Wrld!
?>
```

### Problem 3:

Write a function called **missing\_num** which accepts an unsorted array of **integers** called **nums** & return the missing number using the **array\_sum** function.

```
<?php
    // Write your solution here

    // Expected output:
    // missing_num([10, 3, 4, 8, 1, 7, 6, 9, 2]) => 5
?>
```

### Problem 4:

Write a function called **file\_extensions** which accepts an array of **strings** called **files** & returns their extension names using the **explode** function.

```
<?php
    // Write your solution here

    // Expected output:
    // file_extensions(["index.html", "index.js"]) => ["html", "js"]
?>
```