



FWD PHP ASSIGNMENT 03

OBJECTIVES

Use arrays to store and retrieve data, use loops to perform repetitive tasks.

DUE DATE

Assigned during session03, due 11:59pm the night before session04.

REQUIREMENTS

Included with these assignment specifications is the file **data.php**. Load this file into your own **.php** script and your script will make use of the variables it declares. You may change the some of the values of **data.php** variables for testing, but if/when you need to create additional variables of your own, do not add them to **data.php**, instead add them to your own script file.

Part A (basic array processing):

- Display the initial, unformatted value of the **\$targetName**.
- Display a case formatted version of the **\$targetName** where all letters are lowercased except the first letter, eg: "shANiA" would display as "Shania"
- Add at least three names to the **\$students** array. One of the three names should be yours
- Display how many names are in the **\$students** array
- Display all names in the **\$students** array as an HTML unordered list, with one list item per student name. All names should be displayed case formatted (all letters lowercase except first letter uppercase) no matter how they are cased in the array.
- If the **\$targetName** appears in the array (matches should be case insensitive) the name should appear with visual highlights in the list (eg: apply a distinctive CSS class to the list item if it contains a match for the **\$targetName**)
- After the list of names has been displayed, display a summary message about whether or not the target name had been found. Eg: If the target name was not found in the array, display a message "The search name provided is not in our list", if a match was found, display a message using the matching name, eg: "The search name 'Shania' was found in the list".

Part B (selecting random items from array):

- For this part you will be using the **.svg** files included with this assignment from the **'/cards/'** directory. Depending on where you choose locate this directory, you may need to update the value of the **\$cardImageDirectory** variable in **data.php**
- The goal here is to randomly select a total of **\$cardsPerHand** cards from the 52 items in the **\$cardImages** array and display the selections as HTML images
- Ensure that the same card cannot be selected twice (eg: after each card is selected, you may wish to remove it from the array before selecting the next card). Functions like **rand()**, **unset()**, and **array_values()** may be useful for these operations.

Part C (associative array processing):

- Add at least one more country/capitol city to the associative array (if your favorite country is missing from the list, be sure to add it).
- Use the **\$capitalCities** associative array and display all data points as well as the names of all indices with each capital city as on list item following this format:
 - o *The capital of Canada is Ottawa*
 - o *The capital of Mexico is Mexico City*
 - o *The capital of USA is Washington DC.*
 - o *Etc...*

Part D (iterative code and logic):

- Display all the numbers in the **\$collectionOfNumbers** array in an HTML unordered list.
- Determine and display the sum of all the numbers in the array.
- Determine and display the quantity of numbers in the array that are even numbers.
- Determine and display the quantity of numbers in the array that are odd numbers.
- If a number is 0 (zero) it does not count as either even or odd.
- Loop through all numbers in the array and for each of the numbers encountered count from that number to zero, displaying each stage of the count value, for example:
 - o if the given number is positive, output a count down from that number to zero.
 - o if the given number is negative, output a count from that number up to zero
 - o if the given number is zero, output the message "No counting required"

NOTES

To make case insensitive matches for Part A, use string formatting functions such as the **strtolower()** and **ucfirst()** from assignment-02. Remember to use 'if' statements to make decisions in your code as code performs its loops.

SUBMISSION

Before the due date, compress all assignment resources (HTML, CSS, PHP, images, folders, etc) into a single **.ZIP**. Upload **.ZIP** to

[learn.bcit.ca > Web Scripting 2 > Content > Session03 > Assignment03 Dropbox](#)

STANDARDS FOR ALL ASSIGNMENTS

Remember: The Assignment01 DESIGN and CODE QUALITY requirements apply to this and all future FWD assignments.