EECS 1012: LAB #4 – PHP #2 (Oct 10 – 13, Oct 16 2017)

1. Read the lab instructions in this document and take the pre-lab quiz for Lab #4 -- the TAs will not mark your lab if you do not show them you have not scored 100% on the pre-lab quiz.

Please have a look at the examples posted <u>here</u> for Arrays, Strings, and Files.

2. GOALS & OUTCOMES FOR THIS LAB
- To continue practice with basic PHP
- To familiarize yourself with while, for-loops strings, and arrays
- To learn basic file I/O in PHP

3. LAB 4 – TASK

1) You are provided the following files: Lab4.php, Lab4.css and classList.txt. Please write your code in Lab4.php, you do not need to modify the other files.

[Task 0] Please change the HTML code that says "YOUR NAME HERE" and type in your full name.

[Task 1] is to write a simple while loop that terminates when a condition is reached. See following pages.

[Task 2] is to create an array of ten (10) strings and apply various string operations. See following pages.

[Task 3] is to open a file and print its contents out to the HTML page. If a certain word appears in a line, you should print out the line using as <strong>.

4. SUBMISSIONS

1) [Manual verification by a TA]
As with the previous labs, when you have completed all tasks, ask the TA to come and verify your code and output.

2) Moodle submission
You will see an assignment submission link for Lab4 on Moodle.

1) Create a **folder** named "**Lab4**" and copy your modified Lab4.php as well as the Lab4.css and classList.txt into it. Please make sure it is your modified PHP file with your PHP code. To upload, please follow the instructions in the following video that we used for Lab 1:
https://www.youtube.com/watch?v=stEOh6ntV5o

Starting point. You are given three files: `Lab4.php`, `Lab4.css`, and `classList.txt`. You only need to modify the file `Lab4.php`. Place all of these files in your www directory on the virtual box. Below is an example output of what the final result will look like. You can also test the lab here:

http://www.eecs.yorku.ca/~mbrown/EECS1012/Lab4.php

Lab 4

YOUR NAME HERE

Task 1: While loop

Simulate multiple dice rolls until a 6 is reached. Print out the results of each roll.

Dice roll (5)
Dice roll (2)
Dice roll (2)
Dice roll (4)
Dice roll (4)
Dice roll (5)
Dice roll (5)
Dice roll (6)

Task 2: Array, for-loop, string function

Create an array of strings that is made up of 10 words with the first letter capitalized. Your strings can be of any words you want. Print out these words in a table, where the first column is the word in the array and the second column are the same words in all uppercase. You should use a the rows of the table.

String	Upper
One	ONE
Two	TWO
Three	THREE
Four	FOUR
Five	FIVE
Six	SIX
Seven	SEVEN
Eight	EIGHT
Nine	NINE
Deaner	DEANER

Task 3: Files, arrays, and for-loops

This task is to read in the contents of the file `classList.txt` in to PHP. Then, you should print out each line from the file as a paragraph element. If the line contains the string "EECS", print this out using highlight. See the CSS file for the class name for highlight (you can also view the source of this document to see example of the HTML output).

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TASK 1

Use a while-loop to simulate a dice roll (random number between 1-6). Stop the loop when a 6 is "rolled".

Task 1: While loop

Simulate multiple dice rolls until a 6 is reached. Print out the results of each roll.

Dice roll (5)
Dice roll (2)
Dice roll (2)
Dice roll (4)
Dice roll (4)
Dice roll (5)
Dice roll (5)
Dice roll (6)

EXAMPLE OUTPUT

Task Description

This is a very simple task to help you understand how to use a while loop. Your task is to simulate rolling a standard dice until a 6 is reached. To do that, create a variable called "$dice" and first assign it -1. Then create a while loop that keeps looping until $dice is equal to 6.   *You need to think carefully about what is the appropriate "condition" for this loop*. Inside the loop, assign a new random variable to $dice and print out the value (as shown above).

Task 2

Create an array of 10 strings (words) each starting with an uppercase letter (the rest of the string should be lower case).   You can use any words that you want, they do not have to be the words shown below.   Print out a table where the first column is the word and the second column is the word in all uppercase letters.

Task 2: Array, for-loop, string function

Create an array of strings that is made up of 10 words with the first letter capitalized. Your strings can be of any words you want. Print out these words in a table, where the first column is the word in the array and the second column are the same words in all uppercase. You should use a the rows of the table.

String	Upper
One	ONE
Two	TWO
Three	THREE
Four	FOUR
Five	FIVE
Six	SIX
Seven	SEVEN
Eight	EIGHT
Nine	NINE
Deaner	DEANER

EXAMPLE OUTPUT

Task Description

Using PHP, create an array of ten (10) strings.   Your task is to print out an HTML table with these ten strings where the first column is the string and the second column is the same string but all uppercase.   To do this, you should use a for-loop. You'll need to output the HTML tags to generate the table as shown in the notes. You can also view the source of the example solution (link) to see how the table was created.

Task 3

In the ZIP file, there is a file named "classList.txt". Your task is to read the contents of this file and print out each line of the file as a paragraph (<p> .. </p>) into your HTML page. If the line contains EECS, you should print out the line as a <p class="highlight"> . . </p>, which has been defined in CSS to have a yellow background.

OPTIONAL: If you find a "1st year" text in the line, make the output bold.

EXAMPLE OUTPUT

Task Description

The file "classList.txt" should be copied into the *www* directory. Use the `file()` function to read in this file as an array of string, each string containing a line of the file. Note that the strings in the array will still have the newline "\n" at the end. If you want to remove the "\n", use the `trim()` function. To determine if "EECS" is in the line, use the `explode()` func to break the string into an array containing the student's name, email, degree studied (EECS, MATH, or BIZ), and year. Use the `in_array()` function to determine if "EECS" is present in the array. If it is found in the array, then use the "highlight" class defined in the CSS to make the text in this paragraph highlighted.

OPTIONAL: If the student is a first year student, make the printout bold (shown above).