

Lab PHP3

Due: 11:59 pm, Tuesday, December 5, 2017. Submit through Canvas.

Instructions:

- **No late submission** will be accepted.
- Your web site **MUST** run without error in all major browsers.
- Use PHP3 + Your Last Name + First Letter of Your First Name as your file name. Note that no space or special character other than underscore should be used in the name. This lab should be made of a website with two PHP files. The submission should be a zip with similar naming format, i.e. **PHP3DingW.zip**. **Violation of naming requirement will result in 3 points cut.**
- In the HTML comment tags, at the very beginning of the PHP file, you should put your full name, the course number and name (COP 3834C-01 Web Application Development), the name of lab, e.g. PHP3, and the date. **Without this, 5 point will be cut.**

Subject

Using WebMatrix or equivalent IDE such as Visual Studio or Visual Studio Code, create a PHP enabled website that is made up of two PHP files. The interface of the first PHP file is shown below.

First Term:	<input type="text"/>
Common Ratio:	<input type="text"/>
<input type="submit" value="Submit"/>	

The first PHP file contains a HTML form that reads two positive integers with `<input>` elements. The first `<input>` element reads the first term of a geometric series. The second `<input>` element reads the common ratio of this geometric series. The action attribute of the `<form>` element should specify the name and path of the second file. The form certainly should contain a submit button at the bottom.

In the second PHP file, first write two functions with return to calculate:

- 1) the sum of first 20 numbers in the specified geometric series
- 2) the 10th number of this geometric series

Then write a function without return called `display()` to call above two functions and to print out results of those two functions with proper prompt text. The main PHP code should call `display()` after retrieving the first term and the common ratio from the first file with a HTTP superglobal.

Note:

- This lab must use as much PHP flow control statements as possible while using as less library function as possible. Otherwise 20 points deduction will be applied.
- The everyday English explanation of the geometric series and the definitions of first term and common ration can be found at https://en.wikipedia.org/wiki/Geometric_series.