# Assignment 1

### Part 1: Numbers and Strings

1. Create a file called chapter1.php and create a basic blank webpage with an empty php script.
2. Create two variables named base and height and assign a different number value to each one. ***.5 marks***
3. Create a variable called area and set it equal to ½(base \* height). ***.5 marks***
4. Round area to two decimal places. ***1 mark***
5. Display the following text: "The area of the triangle is" and include the value of the rounded area variable. Use the string concatenation operator. ***.5 marks***
6. Create a constant called MY\_NAME and set it to your first name and your last name with a space in between *e.g. Bill Gates.* ***.5 marks***
7. Convert the MY\_NAME constant to all uppercase using a string function. ***1 mark***
8. Display the following text using your name: "My first name is **BILL GATES**", use the <strong> tag to make the name bolded. ***1 mark***

***Part 1 Total: 5 marks***

### Part 2: Form Validation

1. Open up the a1p2.php file.
2. Make the form in a1p2.php send the form data to the same file. ***1 mark***
3. Add “Sticky Forms” to the form in a1p2.php ***1 mark***
4. Inside the a1p2.php file, validate the sent data for each input using the best practices from chapter 2. ***6 marks***
5. Display the data for each input that passes the validation. ***1 mark***
6. Display an error message for each input that fails the validation. ***1 mark***

***Part 2 Total: 10 marks***

### Part 3: Arrays and Strings

A) Write a PHP script that sorts all the words in this text by alphabetical order and then prints them:

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B) Open the a1p3.php file. Add a function that takes the inputted text as a parameter. The function should check if there are any duplicate characters in the string. For example, the string "cat", would return false. The string "kitten" (the letter t is duplicated), would return true. The script should print whether the string has duplicates or not. **2.5 marks**

***Part 4 Total: 5 marks***