



**UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING**  
**COMPUTER SCIENCE DEGREE PROGRAMME**  
**SECOND YEAR**  
**SCS 2108 - Programming IV**  
**Submission 02**

Q1. Use any of the following online tools or any other online material to test your code.

- [https://www.tutorialspoint.com/execute\\_php\\_online.php](https://www.tutorialspoint.com/execute_php_online.php)
- <http://phptester.net/>

1. Declare two variables and assign your name and age to those variables. Using those variables as super global variables write a PHP function to complete following sentences and display using PHP commands.
  - a. My name is <Your Name>.
  - b. I'm <Your Age> years old.
2. Declare two variables and assign 34 and 54 respectively to those variables. Using only those variables and relevant symbols (+, -, \*, /, %, =) print following statements.
  - a.  $34 + 54 = 88$
  - b.  $54 - 34 = 20$
  - c.  $54 * 34 = 1836$
  - d.  $54 / 34 = 1.588$
  - e.  $54 \% 34 = 20$

3. Write a PHP program to count total duplicate elements in an array.

**Example:**

**Input**

Input array elements : 1,10,20,1,25,1,10,30,25,1

**Output**

Total number of duplicate elements = 5

4. Write a PHP function which reverse a string and display the reversed string.
5. Write a PHP script to compute the real roots of the equation  $ax^2 + bx + c = 0$  using switch case.
6. Write a PHP program to check whether a number is divisible by 5 and 11 or not.
7. A student's marks of 3 subjects are as follows. Algorithm = 30, Programming = 75, Mathematics = 45. Write functions to calculate the total marks, average and grade.

- Average marks = (Algorithm marks + Programming marks + Mathematics marks) / 3
- **Grade**

Average marks  $\geq 50$  - "Pass"

Average marks  $< 50$  - "Fail"

Q2. Create a simple HTML form and accept the user name and display the name through PHP echo statement.

**Please input your name:**

 

**Hello**

**You are required to submit a zip file which is named with your INDEX NUMBER (ex: “12000632.zip”). The zip file should contain a document in PDF format with answers (PHP codes) for above questions.**