CSP203: Software Tools & Technologies Lab

Lab-8: Practice Problems (PHP)

Date: 10-April-2024

Instructions:
1. Try to complete lab problems during the lab hour and submit it through canvas. If you can't complete it within the lab time, you can submit it by the end of today. There will be a penalty if you don't submit on the same day.
2. Prepare all your solution files in a zip file and name it as <ROLLNO.zip> and submit on canvas.

Setting up PHP:

Please follow the below instructions to set up PHP in your lab machine.

1. Login to ubuntu using the following credentials:
   Username: user
   Password: password
2. Type the following commands to setup PHP
   a. sudo apt update
   b. sudo apt install php libapache2-mod-php
   c. sudo systemctl restart apache2
3. If the above steps are successful, PHP and Apache server are installed. You can check if the server is working by typing the below URL in the browser.
   http://localhost/
4. Now, you can start writing your PHP codes on the server (presently the server is installed on your own machine) at the below directory.
   /var/www/html
5. You should give 777 permissions to www directory and all subdirectories (by typing the below command) so you can write your server codes.
   a. chmod -R 777 /var/www

Reference Link:
https://linuxize.com/post/how-to-install-php-on-ubuntu-20-04/

Problem-1:

1. Download the Lab-8 demo files from canvas.
2. Unzip and put them under /var/www/html and check if you are able to get all of them working.
3. Try to understand these problems and how they are working.

Problem-2:
1. Create a simple welcome.php file, this should declare two variables username and password. The program compares if username and password strings are equal. The

output should be "User Authentication is Successful" if both are are equal otherwise, it should print a message that "User Authentication is not Successful"

Problem-3:

1. Create a simple program with the filename calculator.php. The file should declare 3 variables op1, op2, and operator. Where the op1 and op2 are any integers and operator could be "+", '-", or "*". Your program should have a write function that takes the above three parameters and performs the operation and prints the result of the operation. You may use switch case statements if needed.

Problem-4:

Create a program inside user.php which declares two string variables *program, department*, and one integer variable *count*. The program generates several users upto (the count) in the tabular format as listed below.

For example, if the variable declarations inside your program are

program="btech"
department="cse"
count=5

Then the output should be as below.

Roll No	UserName	Email	ID Number
1	cse_1	cse_1@iitbhilai.ac.in	btech_cse_1
2	cse_2	cse_2@iitbhilai.ac.in	btech_cse_2
3	cse_3	cse_3@iitbhilai.ac.in	btech_cse_3
4	cse_4	cse_4@iitbhilai.ac.in	btech_cse_4
5	cse_5	cse_5@iitbhilai.ac.in	btech_cse_5