

Theoretical questions

Explain shortly each question and give an example for each in PHP

- 1) What is a web server?
- 2) What is the difference in strings written in single and double quotes?
- 3) What are some main built-in functions to sort arrays?
- 4) What is the difference between require and include?
- 5) What are PHP superglobals? Explain shortly at least 9 of them.
- 6) What are some differences between \$_GET and \$_POST?
- 7) What is htmlentities() function?
- 8) How do you open a file? List some file open modes and explain each.
- 9) How can you read data from a file and write data to a file?
- 10) What are cookies?
- 11) How do you store an array in a cookie? How do you read this array back from cookie?
- 12) What are sessions?
- 13) What is session propagation?
- 14) What are three main categories of errors in PHP? Explain each.
- 15) How can you suppress errors?
- 16) What are persistent connections?
- 17) What is filtering?
- 18) What is escaping?
- 19) What is session fixation?
- 20) What is PDO?
- 21) What is a class constructor?
- 22) What is a class destructor?
- 23) What are magic methods?
- 24) What is a namespace?
- 25) What is a trait?

Apache Virtual Hosts

- 1) Write Apache configuration codes to display 2 different websites on ports 80 and 8080. Each web site has different paths on the server.
- 2) Write Apache configuration codes to display 2 different websites with names www.siteone.com and www.anothersite.com from the same server. Each website has different paths on the server
- 3) Suppose we have a web site outside of xamp\htdocs and we want to access it from our web server. Configure this directory with any alias that you want.
For example: we have a site in the httpdocs called www.test.com and another folder in /home/homework. We want to access the homework in this way:
www.test.com/homework

Look at “VirtualHosts” and “Directory and Aliases” PDFs on LMS to solve all three of them.

PHP

- 1) Write PHP script to update values from the database. The database Epoka has a table named User with two fields: email and password.
 - a) Create a form to update the current logged in user. The id of the current logged in user you can find it from `$_SESSION['user_id']`. When you first open the form, show the current email and password (do not leave the input fields empty). To connect to the database use credentials: Server: 127.0.0.1, database: Epoka, Username: root, Password: "".
 - b) When submitting the data, validate the email with regular expression. Email format should be: first letter of the first name followed by last name followed by 2 numbers followed by "@epoka.edu.al" or "@epoka.al" or "@cen.epoka.edu.al". Password should be at least 6 characters long and contain a special character.
 - c) In a validation.txt file, write the user_id of any unsuccessful attempt to update, separated by commas. For example: If I try to update my email wrongly, write in the validation.txt file my user id (get it from Session).