



Sheet 2

Objective: upon successful completion of this sheet, students should be able to deal with PHP indexed and associative arrays.

- (1) Write a PHP program to store the marks of 5 different subjects of a student in an associative array, where each mark is out of 100. Then, write a function to perform each of the following:
 - Get the subject with the maximum mark.
 - Calculate the grade of the student according to the percentage of the 5 given subjects.
- (2) Modify the previous question to store the marks of the 5 different subjects for a set of students, and then write a function to perform each of the following:
 - Get the students whose total marks are greater than or equal to 400.
 - Calculate the average of the previously set of students.
- (3) Write a PHP program to find prime numbers between 1 and 100 and store them in an array and then perform each of the following:
 - Calculate the summation of these numbers
 - Find the index of numbers that contain the digit "9".
- (4) Create an associative array of some countries with their capitals, then write a PHP program to perform each of the following:
 - Display capital and country name from this array sorted in an ascending order according to the capital name.
 - Find the capital of the country that contains the substring "tine".
 - Display the capital of the country that has the longest string.
 - Reverse the capitals that have even lengths.

Some countries and their capitals: Egypt Cairo, Germany Berlin, Iraq Baghdad, Palestine Jerusalem, Lebanon Beirut, France Paris, Jordan Amman, Tunisia Tunis, Morocco Rabat, Austria Vienna, etc.