Unit 2. Introduction to PHP
Exercises

Write the proper scripts to perform the following tasks:

1. Given the dividend, the divisor, the quotient and the remainder of a division, check if it is correct.
2. Given the coefficients of a second degree equation, deliver its roots.
3. Given a number, deliver its absolute value as an output.
4. Given two numbers, deliver a message that points out the biggest one.
5. Enhance the previous code in order to show if both numbers are the same.
6. Given two numbers, deliver a message to show them ordered from the smallest to the biggest.
7. Given three numbers, deliver an output in which they appear ordered from the biggest to the smallest.
8. Given three numbers, deliver an output to point out the biggest and the smallest.
9. Given a year, deliver a message to point out whether it is a leap one or not. Leap years are those which are divisible by 4, except for those which are divisible by 100 without being by 400.
10. Deliver the sum of the numbers from 1 to 100.
11. Deliver the factorial of 10.
12. Given an integer, deliver all its divisors.
13. Given an integer, deliver a message to point out whether it is prime or not.
14. Given a number, deliver all its prime divisors.
15. Deliver the first 20 terms of the Fibonacci Sequence. This sequence begins by 0 and 1, and the rest of the terms can be calculated adding the two preceding ones.

$$a_0 = 0, \quad a_1 = 1, \quad a_n = a_{n-1} + a_{n-2}$$

16. Given an array of numbers, deliver the average, the biggest and the smallest.