Programming III

Laboratory 1 - 3.10.2016 - 8.10.2016

Objectives

■ Familiarize with programming environment

■ Developing simple programs that uses: command line arguments parsing, transformation of String objects, usage of random numbers generators

Exercises

1. Display to standard output the message "Hello word!"

2. Display to standard output all parameters passed on command line of a java program.

3. Calculate the biggest common divisor of two numbers *a* and *b* that are passed like arguments on command line.

4. Simulate the dice throwing action, for a *n* numbers of times (*n* is passed like argument on command line) using the random number generator from:

   a) Math class

   b) Random class

5. Calculate *n!* for a number *n* that is passed like argument on command line. The factorial will be calculated only for numbers *n* that satisfies the following condition $0 \leq n \leq 12$.

6. Write a program that verifies if a number passed like command line argument is a palindrome.

7. Write a program that displays at standard output the first *n* terms of Fibonacci sequence: $a_0 = a_1 = 0, \quad a_n = a_{n-1} + a_{n-2}$. The number *n* is passed like argument on command line.

8. Write a program that checks if a number *n* random generated, with the property that *n<300* is prime.