

# Systems and Network Security (NETW-1002)

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Assignment 1

**Deadline: Saturday February 25, 2017**

## Requirement 1

Implement the DES encryption algorithm in Java, C/C++, or Python using two modes of operations: ECB and CBC. Your program should be able to read a file from the hard disk, encrypt it and store the result back on the hard disk.

You can test your program by comparing its output with the output of the OpenSSL tool using, as input, a text file.

**PLEASE READ CAREFULLY:**

Your source code will be graded according to the following criteria:

- Originality: This has to be your OWN CODE, any plagiarism will get a ZERO GRADE.
- Correctness: Your code has to work correctly.
- Readability: Your code has to be well-written (use indentation, use understandable names for your variables, use comments, etc.)

**Note:** You are allowed to work in groups from 4 to 5 persons.

You are required to deliver the following to the TA:

- The source code and executable of Requirement 1.