## ISM Assignment 2 for C/C++ Secure Application Development

Write a C++ application using OpenSSL development library having the below specification:

- 1. Define and implement the class named **MessageDigest** as wrapper for OpenSSL message digest functionality. The class **MessageDigest** must contain the following items at least:
  - 1.1 Static fields for supported message digest algorithms (two algorithms at least).
  - 1.2. Constructor(s) to initialize the object **MessageDigest**. Please, document the constructor(s) within comments. **(2p)**
  - 1.3. Methods to pass content to be digested and to get the message digest result. Please document within comments any method you add. (4p)
  - 1.4. Destructor, if the case.
- Implement the function main() where the message digest functionality implemented by the class MessageDigest is applied for two different supported message digest algorithms according to the class definition. The computed message digests by using the class MessageDigest will be printed out in the console. (3p)

The C development library OpenSSL can be downloaded from your ISM accounts (x86 Win version: <a href="https://portal.ism.ase.ro/mod/folder/view.php?id=450">https://portal.ism.ase.ro/mod/folder/view.php?id=450</a>) as binary bundle.

All the solutions will be cross-checked with MOSS from Stanford. Solutions with a similarity of more than 50% will be canceled.