

Assignment 1

Cryptography Products

Value: 20%

Working: Does the code actually work? (proved by sample runs and code inspection)

Symmetric key cryptography

Encrypt the message (1 mark)

Be able to handle arbitrarily long messages, by one of ECB, CBC, OFB or CFB (1 mark)

Send the message between machines (1 mark)

Decrypt the message (1 mark)

Asymmetric key cryptography

Encrypt the message (1 mark)

Be able to handle arbitrarily long messages (1 mark)

Send the message between machines (1 mark)

Decrypt the message (1 mark)

For each of these, either the code does or it does not

Documentation

Comments (2 marks)

Sufficient so that a reader can understand your code (and whatever you think about your programming skills **no** program is entirely self documenting). I would expect people with a degree to understand the need for a decent level of comments

Compilation Instructions (2 marks)

Sufficient so that I could take your code and get it compiled

Purpose and user instructions (2 marks)

Sufficient so that someone who knows about encryption could work what your code is doing and how to use it. Also should include your name, student number and when you wrote the code – you should also include this information and a brief statement of what the code does as a header comment

Report

I expect the report to be in decent written English. Marks may be deducted for poor spelling and/or grammar.

Your report should include sufficient detail on how you found the necessary libraries (or whatever) that I could repeat your exercise. (2 marks)

Your evaluation should address the points mentioned in the assignment, noting that the fourth one is open ended. (4 marks)

Assignment 1

Security Products

Value: 20%

I expect the report to be in decent written English. Marks may be deducted for poor spelling and/or grammar.

You have to select a basic product area and describe what such products do, in general terms. (2 marks)

Provide the names, origin and pricing of the two products, including (at least) URLs for the companies that produce them. (2 marks)

Provide a detailed description of the functionality provided by each of the two products you choose. (4 marks)

Your comparison between the products should include, but not be limited to, the following areas: (8 marks)

- After sales service
- Price
- Availability
- Functionality

You must provide a final recommendation, coherently argued and based on your comparison, as to which product you would recommend (4 marks)