

Project 1

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Summary

The answers to each of the project questions are found below. They are also found as comments at the top of each java file. To build the project, install and run *ant*. To run each file, use *java -cp build < classname >*.

1. Encryption

The ciphertext in *hexadecimal* format is [E5, 0E, A6, 1E, 50, A3, D2, 69]

2. Decryption

The plaintext is *CPSC 428*

3. Finding the Key

The complete key is: [90, 4E, F2, CC, 86, 02, 4A, 16]

Additional keys that work are:

[90, 4E, F2, CC, 86, 02, 4B, 16]
[90, 4E, F2, CC, 86, 03, 4A, 16]
[90, 4E, F2, CC, 86, 03, 4B, 16]
[90, 4E, F2, CC, 87, 02, 4A, 16]
[90, 4E, F2, CC, 87, 02, 4B, 16]
[90, 4E, F2, CC, 87, 03, 4A, 16]
[90, 4E, F2, CC, 87, 03, 4B, 16]

4. Code Breaking

The plaintext is: *Good Job*

The complete key is: [BA, 54, 68, 08, 12, D4, C6, 9E]