# CSCI-2201 Lab 6

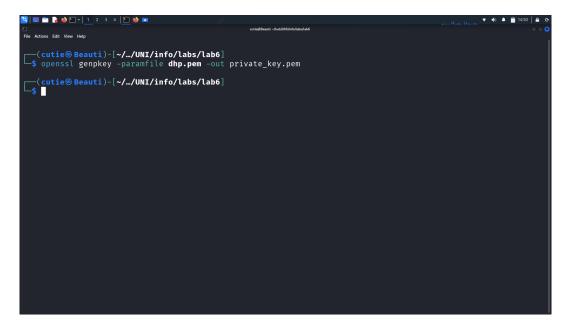
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March 14, 2025

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# 1 Exercise 1

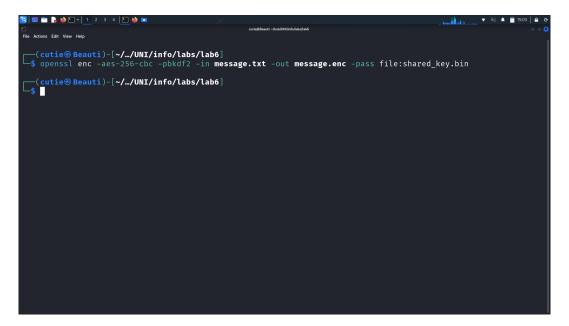


step 1

step 2

step 3

step 4



step 5

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(cutie® Beauti)-[~/__/UNI/info/labs/lab6]

$ openssl enc -aes-256-cbc -pikdf2 -d -in message.enc -out message.dec -pass file:shared_key.bin

(cutie® Beauti)-[~/__/UNI/info/labs/lab6]

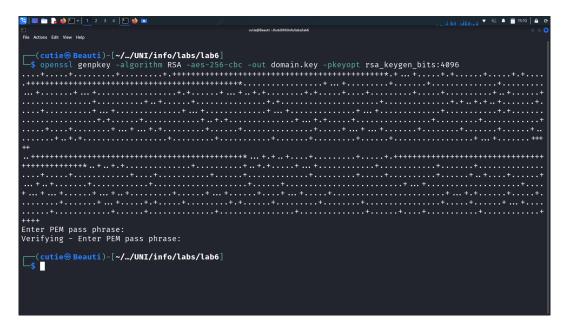
$ diff message.txt message.dec

(cutie® Beauti)-[~/__/UNI/info/labs/lab6]

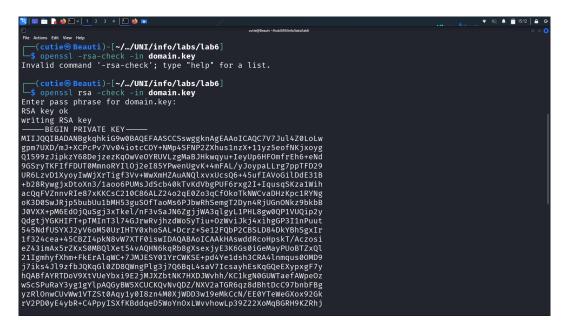
$ $ [ cutie® Beauti)-[~/__/UNI/info/labs/lab6]
```

step 6

#### 2 Exercise 2



step 1



checking step1

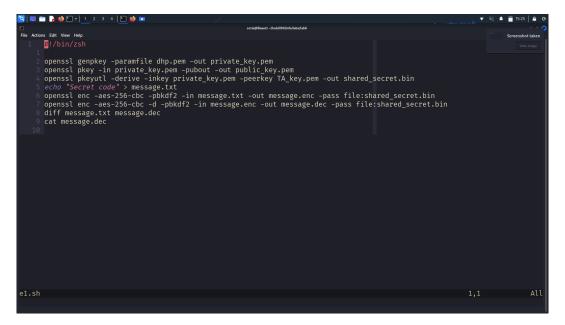
step 2

step 3

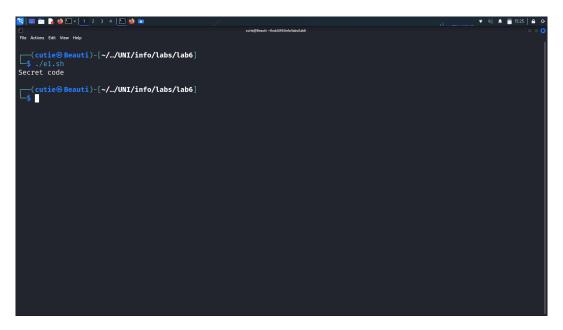
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                                                                                ••• He | 15:17 | △
(cutie@Beauti)-[~/.../UNI/info/labs/lab6]
$ openssl x509 -text -noout -in domain.crt
Certificate:
```

step 4

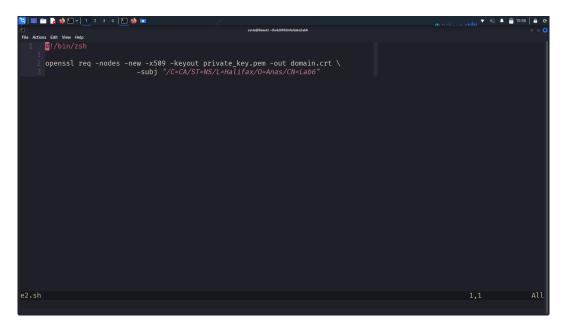
## 3 Exercise 3



Exercise 1 script



script check



Exercise 2 script

## 3.1 Algorithms:

We can use the command "openssl ciphers -v" to list all of the available algorithms, some that I have access to are:

- 1. AES(256)
- 2. AESCCM8(256)
- 3. Camellia(256)
- 4. SEED(128)
- 5. CHACHA20/POLY1305(256)