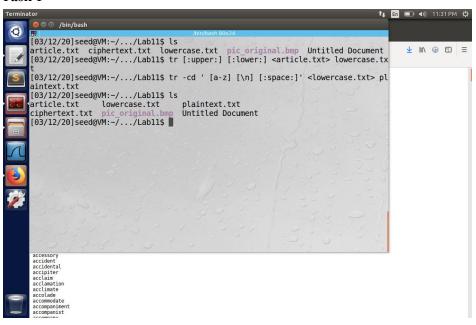
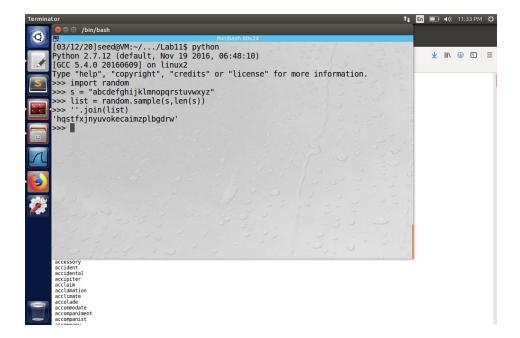
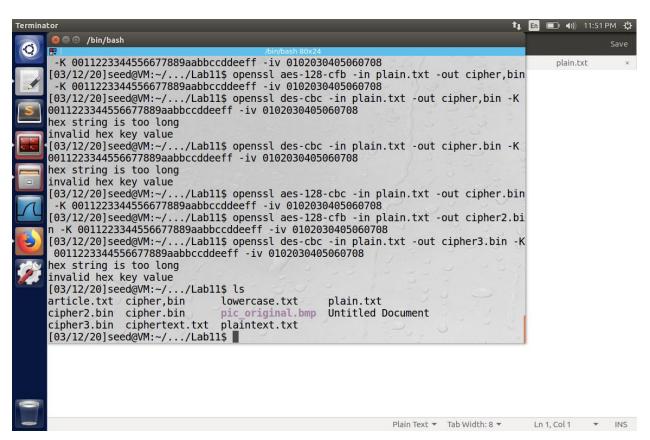
Lab 11 CSP 544 Karsen Diepholz

Task 1





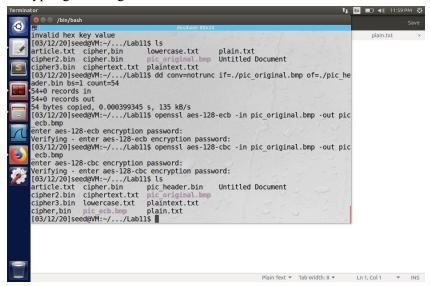
Task 2



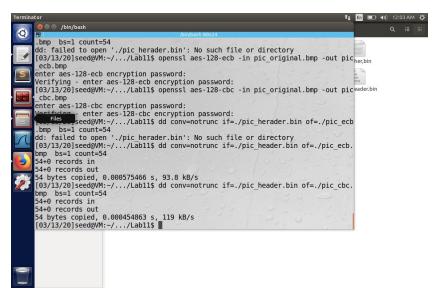
We encrypt the file using 3 different methods: aes-128-cbc, aes-128-cfb, des-cbc.

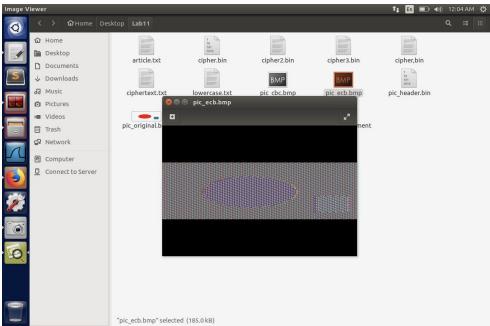
Task 3:

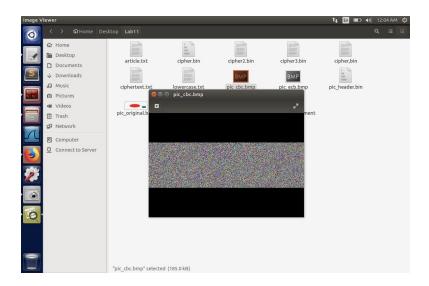
Encrypting the image into two different methods: aes-128-cbc and aes-128-cfb



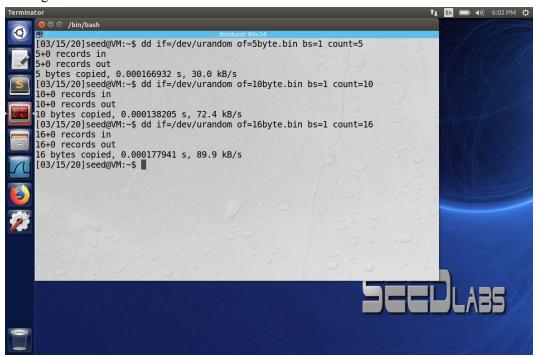
Showing the two different images:



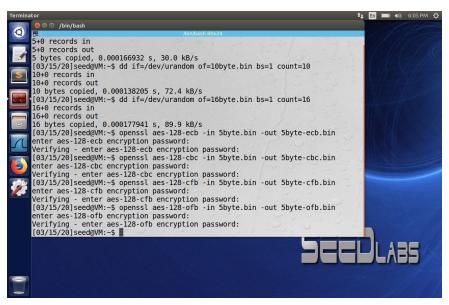


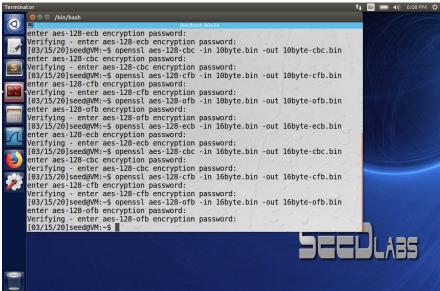


Task 4
Making 3 files...



Encrypting...





Results...

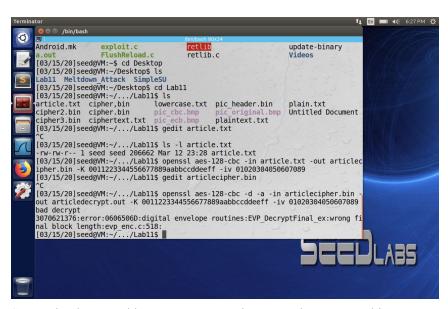


CFB and OFB pad 16 bytes to the end, CBC and ECB pad until a multiple of 8 is reached.

Task 5:

ECB: All but 1 corrupted block CBC: All but 2 corrupted block

CFB: All but 2 blocks OFB: All but 1 block



Cannot be decrypted because we were the ones who corrupted it!

Task 6

.1

Each IV needs to be different because if they are the same, the attacker can use any message to figure out what the plaintext is for every message that is received, because every word is the same (eg "word" is 6b32 for every instance of it)

.2

Task 7

