



**FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER ENGINEERING
ENCS4320 - Applied Cryptography**

HW#2

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**Section: 1
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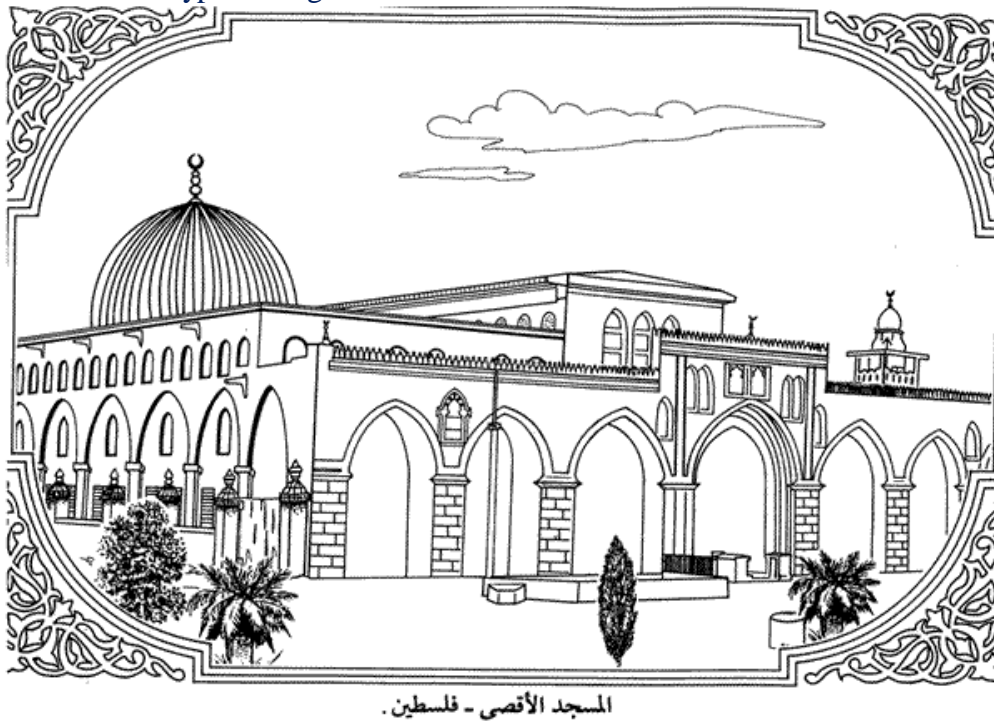
The figures below show the results of testing the Tiny Encryption Algorithm (TEA) on a picture in both ECB and CBC modes, demonstrating the effectiveness of the encryption and decryption procedures.

1. TEA-ECB

➤ Encrypted Image



➤ Decrypted Image

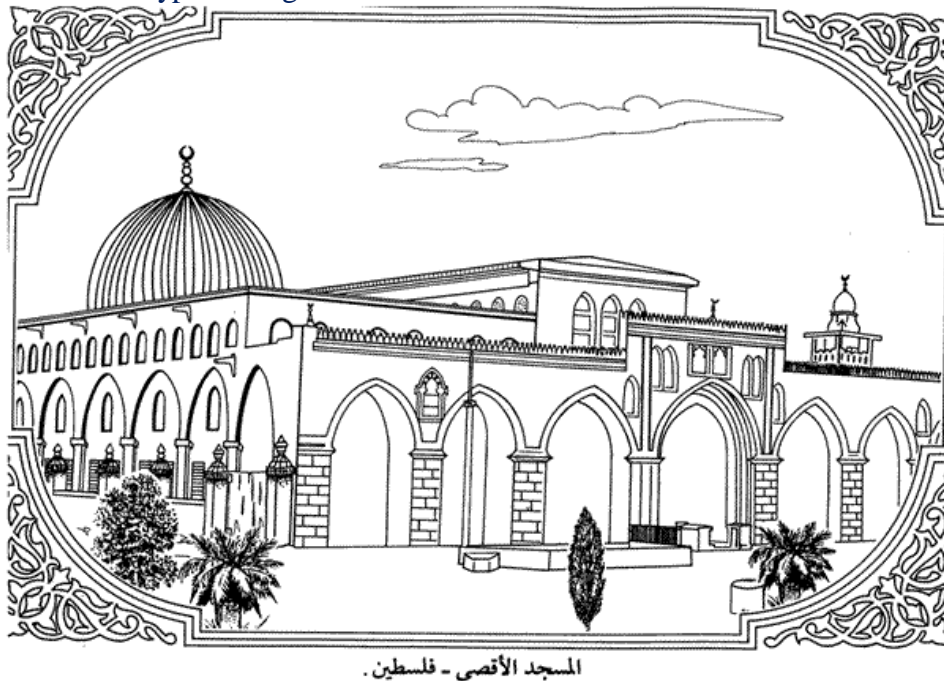


2. TEA-CBC

➤ Encrypted Image



➤ Decrypted Image



The pictures depict the outcomes of encrypting and decrypting an image using the ECB and CBC techniques. ECB encrypts blocks independently, resulting in apparent patterns and making it less secure. CBC, on the other hand, combines prior ciphertext with the current block, yielding a more secure, randomly generated output. The decrypted photos should ideally resemble the original, with any differences suggesting possible processing difficulties.