Lab Assignment 3: DES

Implement DES algorithm using Java.

- I. Encryption
 - Input:
 - o Plaintext (any size) saved in Original.txt
 - o Key (8 characters) which will be converted into binary [Input from user]
 - Output:
 - o Ciphertext (ASCII chars or Hexadecimal) saved in EncryptedFile.txt
- II. Decryption
 - Input
 - Ciphertext already saved in Encrypted_File.txt
 - Key [Input from user]
 - Output:
 - o Deciphered text saved in Decrypted_File.txt

Special Cases:

- Your code must handle that plaintext size is of any size not only 8 characters.
 - o If the plain text size is less than 8 characters your code should handle that by Padding (adding special characters)
 - o If the plain text size is more than 8 characters your code should also handle that by dividing plain text to blocks of size 8.
- O Your code must handle that key size must be 8 characters by displaying error message and request another key from user.