CS115 - LABWORK 8
Aim: Understanding bitwise operations and preprocessor concepts.

1. Write a program that simply encrypts a plaintext by using bitwise XOR operation. Your program should define the encryption module of the program as a macro definition that takes a 1 char argument and gives the result as making a bitwise XOR operation between the argument and a key character such as ‘@’. Finally, write a decoder in order to decrypt the cyphertext.

HINT: It is known that \((A \text{ XOR } B) \text{ XOR } B = A\)

   Example code block:
#define key '@'
define encrypt_XOR(x) ... /* (x XOR '@')*/
int main()
{
   /* Give an example to test a 1 character encryption/decryption ****/
   /* Also, give an example to test some kind of string encryption/decryption ****/
   return 0;
}

2. HOMEWORK:
Write a swap function using bitwise XOR operations.