**Algorithm for XOR Cipher**

1. Declare 2 variables and 2 strings and 1 character

x – y - z ,,, key and msg

1. Creat while loop and print the welcome text to the user
2. Print the following :-

Press 1 to Write the Message to Encrypte it

Press 2 to Write Tne Encrypted Message to Decrypte it...

Press 3 if you want to End the Program

1. take z from the user and if its not number ,, it will be repeated
2. if z=1 , print “please enter the key “ and take the key from the user that wanted to be in XOR ciphering with the input messages (only 1 char)
3. print “Please enter the message to cipher” and take the message from the user
4. create array and counter for the message and take char by char and make XOR calc with the enterd key before , and skip the spaces
5. print cipher characters one by one till the end of the Encrypted message
6. if z=2 , this is Dencryption , so take a message from user to dencrypte it
7. creat an array and counter to take char by char from the Encrypted message to dencrypte it with XOR , and skip the spaces
8. Print the message
9. If z=3 , end the program and print goodbye