**ENCRYPTING**

Make the main class as public static void main(String args[]). Bring in the file by setting the following up:

BufferedReader inFile = null;

inFile = new BufferedReader(new FileReader("Encrypted.csv"));

Place the following code underneath the while loop for reading the file and encrypting it afterwards. The expression for Encryption is as follows: **En(x) = (x+n)%26**. In Java code, this can be converted by using a for loop for going through the characters in a file and then shift each character one at a time to the RIGHT of the alphabet. Convert (x + n) into a char since En(x) is already a char. Shift the file by using: file = (char)(file + shift);. Then, use cipherText = cipherText + file; to shift the file altogether and then print it out as System.out.println(“Caesar ciphered text: “ + cipherText);.

**DECRYPTING**

Make the main class as public static void main(String args[]). Bring in the file by setting the following up:

BufferedReader inFile = null;

inFile = new BufferedReader(new FileReader("Encrypted.csv"));

Place the following code underneath the while loop for reading the file and decrypting it afterwards. The expression for Decryption is as follows: **De(x) = (x-n)%26**. The only difference here is using a minus and not a plus. In Java code, this can be converted by using a for loop for going through the characters in a String and then shift each character one at a time to the LEFT of the alphabet. Convert (x - n) into a char since De(x) is already a char. Shift the file by using: file = (char)(file + shift);. Then, use cipherText = cipherText + file; to shift the file altogether and then print it out as System.out.println(“Caesar ciphered text: “ + cipherText);.

If doing either encryption or decryption (or both), you would place them in static methods named Encryption and Decryption respectively and call them when needed.