public class CaeserCipher {

public static String encrypt(String input, int key) {

    //Make a StringBuilder with message (encrypted)

    StringBuilder encrypted = new StringBuilder(input);

    //Write down the alphabet

    //String alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

    String alphabet = "abcdefghijklmnopqrstuvwxyz";

    //Compute the shifted alphabet

    String shiftedAlphabet = alphabet.substring(key)+

    alphabet.substring(0,key);

    //Count from 0 to < length of encrypted, (call it i)

    for(int i = 0; i < encrypted.length(); i++) {

        //Look at the ith character of encrypted (call it currChar)

        char currChar = encrypted.charAt(i);

        //Find the index of currChar in the alphabet (call it idx)

            int idx;

        //  if(Character.isLowerCase(currChar)){

                 idx = alphabet.indexOf(currChar);

                // }

            //  else{

                    if(Character.isUpperCase(currChar)){

                        idx = alphabet.indexOf(Character.toUpperCase(currChar));

                }

                    idx = alphabet.indexOf(currChar);

            //If currChar is in the alphabet

                if(idx != -1){

            //Get the idxth character of shiftedAlphabet (newChar)

            char newChar = shiftedAlphabet.charAt(idx);

            encrypted.setCharAt(i, newChar);

            }

        //Otherwise: do nothing

            }//return encrypted.toString();

    //Your answer is the String inside of encrypted

            //return encrypted.toString();

    //}

    return encrypted.toString();

    }

 public static void testCaesar(){

//public void main (String[]args){

//CaesarCipher cs = new CaesarCipher();

int key = 17;

FileResource newFile = new FileResource("C:\\Users\\tangara\\Java\\CaesarCipher\\message2.txt");

String message = newFile.asString();

String encrypted = encrypt(message, key);

System.out.println(encrypted);

String decrypted = encrypt(encrypted, 26-key);

System.out.println(decrypted);

}

 public static void main (String[]args){

        // CaesarCipher cs = new CaesarCipher();

         testCaesar();

    }

    }