```java

//  ROT13 cipher is a very simple encryption cipher that rotates the alphabet by
//  13 letters to change “A” to “N”, “B” to “O”, “C” to “P”, “X” to “K”,
//  “Y” to “L”, “Z” to “M”, etc.
//
//  e.g. “secret” would be encrypted to “frperg”
//
//  Create a program that takes a single word in lowercase letters, stored as a
//  constant variable, and outputs it as a ROT13 encrypted version.

import java.util.Scanner;

public class Assignment1c {

    public static void main(String[] args) {
        Assignment1c RotProgram = new Assignment1c();

        Scanner s = new Scanner(System.in);

        //asking the user for an input
        System.out.print("Please put a sentence in: ");
        String str = s.nextLine();

        String changedString = RotProgram.changeString(str);

        //displaying the unencrypted and encrypted strings
        System.out.println("Unencrypted: " + str);
        System.out.println("Encrypted: " + changedString);

    }

    //String encryption
    private String changeString(String str) {
        String output = "";
        for (int i=0; i<str.length(); i++) {
            char changedChar = newChar(str.charAt(i));
            output += changedChar;
        }
        return output;
    }

    public char newChar(char inputChar) {
        int numAlphabet = 26;
        char[] alphabet = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm',
                           'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z'};

        char changedChar = inputChar;
        //Checking if the current letter is uppercase or lowercase
        boolean uppercase = !(changedChar == (Character.toLowerCase(changedChar)));

        for (int i=0; i<numAlphabet; i++) {
            //converting the inputChar into lowercase
            if (Character.toLowerCase(inputChar) == alphabet[i]) {
                int newSpotInAlphabet = i + 13;

                if (newSpotInAlphabet >= numAlphabet) {
                    newSpotInAlphabet -= numAlphabet;
                }

                //Changing the originally uppercase characters back to uppercase
                if (uppercase) {
                    changedChar = Character.toUpperCase(alphabet[newSpotInAlphabet]);
                }else
                    changedChar = alphabet[newSpotInAlphabet];
            }
        }
        return changedChar;

    }
}
```