import java.util.Scanner;

public class MonoalphabeticCipher

{

public static char p[] = { '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' };

public static char ch[] = { 'Q', 'W', 'E', 'R', 'T', 'Y', 'U', 'I', 'O',

'P', 'A', 'S', 'D', 'F', 'G', 'H', 'J', 'K', 'L', 'Z', 'X', 'C', 'V', 'B', 'N', 'M' };

static String str;

public static String doEncryption(String s)

{

char c[] = new char[(s.length())]; for (int i = 0; i < s.length(); i++)

{

for (int j = 0; j < 26; j++)

{

if (p[j] == s.charAt(i))

{

c[i] = ch[j]; break;

}

}

}

return (new String(c));

}

public static String doDecryption(String s)

{

char p1[] = new char[(s.length())]; for (int i = 0; i < s.length(); i++)

{

for (int j = 0; j < 26; j++)

{

if (ch[j] == s.charAt(i))

{

p1[i] = p[j]; break;

}

}

}

return (new String(p1));

}

public static void main(String args[])

{

Scanner sc = new Scanner(System.in); System.out.println("Enter the message: "); str=sc.nextLine();

String en = doEncryption(str.toLowerCase()); System.out.println("Encrypted message: " + en); System.out.println("Decrypted message: " + doDecryption(en)); sc.close();

}

}