**Practical-1B: Mono Alphabetic Substitution Technique Encryption and Decryption**

**Code:**

package com.mycompany.tycs.rehmah;

import java.util.Scanner;

public class Prac2 {

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', ' '};

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<27; 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<27; 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 Message: ");

String en = doEncryption(sc.nextLine().toLowerCase());

System.out.println("Encrypted Message: " + en);

System.out.println("Decrypted Message: " + doDecryption(en));

sc.close();

}

}

**Output:**

Enter Message:

rehmah

Encrypted Message: KTIDQI

Decrypted Message: rehmah