* **Program Code:**

import java.io.\*;

class GFG {

public static char normalChar[]

= { '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 codedChar[]

= { '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 stringEncryption(String s)

{

String encryptedString = "";

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

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

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

{

encryptedString += codedChar[j];

break;

}

if (s.charAt(i) < 'a' || s.charAt(i) > 'z')

{

encryptedString += s.charAt(i);

break;

}

}

}

return encryptedString;

}

public static String stringDecryption(String s)

{

String decryptedString = "";

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

{

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

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

{

decryptedString += normalChar[j];

break;

}

if (s.charAt(i) < 'A' || s.charAt(i) > 'Z')

{

decryptedString += s.charAt(i);

break;

}

}

}

return decryptedString;

}

public static void main(String args[])

{

String str = "Pratik Bangal";

System.out.println("Plain text: " + str);

System.out.println("");

String encryptedString = stringEncryption(str.toLowerCase());

System.out.println("Encrypted message: "

+ encryptedString);

System.out.println("Decrypted message: "

+ stringDecryption(encryptedString));

}

}

* **Output:**

