- **Program Code:**

```java
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;
```

```java
        }

        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:**

Output	Clear

```
java -cp /tmp/5MDWywq860 GFG
Plain text: Pratik Bangal

Encrypted message: HKQZOA WQFUQS
Decrypted message: pratik bangal
```