Practical NO. 01

```
import java.util.Scanner;
public class Practical1 {
        private static final int SHIFT = 3;

   // Encrypt method
   public static String encrypt(String plainText) {
      StringBuilder cipherText = new StringBuilder();
      plainText = plainText.toUpperCase();

      for (char ch : plainText.toCharArray()) {
         if (ch >= 'A' && ch <= 'Z') {
            int p = ch - 'A';
            int c = (p + SHIFT) % 26;
            cipherText.append((char) ('A' + c));
         } else {
            cipherText.append(ch);
         }
      }
      return cipherText.toString();
   }

   // Decrypt method
   public static String decrypt(String cipherText) {
      StringBuilder plainText = new StringBuilder();
      cipherText = cipherText.toUpperCase();

      for (char ch : cipherText.toCharArray()) {
         if (ch >= 'A' && ch <= 'Z') {
            int c = ch - 'A';
```

```
            int p = (c - SHIFT + 26) % 26;
            plainText.append((char) ('A' + p));
        } else {
            plainText.append(ch);
        }
    }
    return plainText.toString();
  }

  // Main method
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter Plain Text: ");
    String plainText = sc.nextLine();
    String encrypted = encrypt(plainText);
    String decrypted = decrypt(encrypted);
    System.out.println("\nPlaintext  : " + plainText);
    System.out.println("Encrypted  : " + encrypted);
    System.out.println("Decrypted  : " + decrypted);
    sc.close();
  }
}
```

OUTPUT:

```
Enter Plain Text: i am batch c

Plaintext  : i am batch c
Encrypted  : L DP EDWFK F
Decrypted  : I AM BATCH C
```