4. Write a Java program to perform encryption and decryption using Substitution Cipher algorithm.

Program:

```
System.out.print(s:"Enter the encryption key (shift value); ");
int shift = scanner.nextInt();
÷
                             String encryptedText = encrypt(plainText, shift);
System.out.println("Encrypted Text: " + encryptedText);
                               String decryptedText = decrypt(encryptedText, shift);
System.out.println("Decrypted Text: " + decryptedText);
.
                                StringBuilder encrypted = new StringBuilder();
                                      if (character.isLetter(c)) {
    char base = Character.isLowerCase(c) ? 'a' : 'A';
    encrypted.append((char) ((c - base + shift) % 26 + base));
} else {
                                                encrypted.append(c);
          J SubstitutionCipher.java ×
                                       if (Character.isLetter(c)) {
   char base = character.isLowerCase(c) ? 'a' : 'A';
   encrypted.append((char) ((c - base + shift)) % 26 + base));
} else {
                                               encrypted.append(c);
ş
Json
```

Output:

