

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 12\_Q3

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

In the mystical realm of programming, there exists a magical incantation to reveal hidden words.

Elara, the skilled enchantress, wishes to summon a word using her spell and then reverse its characters to uncover its enchanted reflection.

Write a program that uses the predefined functional interface Supplier<String> and a lambda expression to:

Supply (generate) a string, and

Display its reversed form.

#### ***Input Format***

No input is required from the user.

The string must be supplied internally using a `Supplier<String>`.

#### ***Output Format***

Print the reversed version of the supplied string.

Refer to the sample output for formatting specifications.

#### ***Sample Test Case***

Input: Wizard!!

Output: !!draziW

#### ***Answer***

```
import java.util.Scanner;
interface ReverseStringFunction {
    String reverse(String input);
}
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        String input = scanner.nextLine();
        ReverseStringFunction reverser = s -> new
        StringBuilder(s).reverse().toString();
        String reversed = reverser.reverse(input);
        System.out.println(reversed);
        scanner.close();
    }
}
```

***Status : Correct***

***Marks : 10/10***