

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & DS - Section 3

Batch: 2028

Degree: B.E - AI & DS

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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**

```
// You are using Java
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