

# Rajalakshmi Engineering College

Name: Gayathri Boopathy  
Email: 240701141@rajalakshmi.edu.in  
Roll no: 240701141  
Phone: 9363837860  
Branch: REC  
Department: CSE - Section 10  
Batch: 2028  
Degree: B.E - CSE

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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;
```

```
public class Main {
```

```
    // Interface for the Lambda Expression
    interface ReverseStringFunction {
        String reverse(String input);
    }
```

```
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
```

```
        String input = scanner.nextLine();
```

```
        // Use Lambda Expression to reverse the string
        String reversed = ((ReverseStringFunction) s -> new
        StringBuilder(s).reverse().toString()).reverse(input);
```

```
        System.out.println(reversed);
```

```
        scanner.close();
```

```
    }
}
```

Status : Correct

Marks : 10/10