

# Rajalakshmi Engineering College

Name: SANDEEP K  
Email: 240701464@rajalakshmi.edu.in  
Roll no: 240701464  
Phone: 8072048996  
Branch: REC  
Department: CSE - Section 8  
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: !!dرازدW

#### ***Answer***

```
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**