

# 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***

```
// You are using Java
import java.util.Scanner;
import java.util.function.Supplier;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // Read the string from user input
        String input = sc.nextLine();

        // Supplier supplies the user-provided string
        Supplier<String> wordSupplier = () -> input;

        // Get the supplied string
        String word = wordSupplier.get();

        // Reverse the string using StringBuilder
        String reversed = new StringBuilder(word).reverse().toString();

        // Print the reversed string
        System.out.println(reversed);
    }
}
```

**Status :** Correct

**Marks :** 10/10