

# 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;
import java.util.function.Supplier;

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

        String supplied;
        if (sc.hasNextLine()) {
            String line = sc.nextLine();
            supplied = line.isEmpty() ? "Wizard!!" : line;
        } else {
            supplied = "Wizard!!";
        }

        Supplier<String> supplyString = () -> supplied;

        String reversed = new StringBuilder(supplyString.get()).reverse().toString();
        System.out.println(reversed);
    }
}
```

**Status :** Correct

**Marks :** 10/10