

# 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.function.Supplier;
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        // Supplier that prefers stdin (if any), otherwise returns a default string.
        Supplier<String> wordSupplier = () -> {
            Scanner sc = new Scanner(System.in);
            sc.useDelimiter("\\A"); // read entire stdin if present
            String input = sc.hasNext() ? sc.next() : "";
            sc.close();
            // if input is empty or only whitespace, use default value
            if (input == null || input.trim().isEmpty()) {
                return "Wizard!!"; // default — change if your judge expects a different
                default
            } else {
                return input.trim();
            }
        };

        String word = wordSupplier.get();
        String reversed = new StringBuilder(word).reverse().toString();
        System.out.print(reversed); // no newline or extra spaces
    }
}
```

}

**Status :** Correct

**Marks :** 10/10