

# 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: !!dرازیW

#### ***Answer***

```
import java.util.*;
import java.util.function.Supplier;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String input = sc.nextLine(); // read the user input string

        // Supplier using lambda to return the user input
        Supplier<String> supplier = () -> input;

        // Get the string from supplier
        String word = supplier.get();

        // Reverse and print it
        String reversed = new StringBuilder(word).reverse().toString();
        System.out.println(reversed);
    }
}
```

**Status : Correct**

**Marks : 10/10**