Rajalakshmi Engineering College

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2024_28_III_OOPS Using Java Lab

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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

```java
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 = "";

        // If the test system provides input, read it.
        if (sc.hasNextLine()) {
            input = sc.nextLine().trim();
        }

        // Supplier to provide the word (either from input or default)
        String finalInput = input.isEmpty() ? "Wizard!!" : input;

        Supplier<String> wordSupplier = () -> finalInput;

        // Reverse and print
        String reversed = new StringBuilder(wordSupplier.get()).reverse().toString();
        System.out.println(reversed);

        sc.close();
    }
}
```