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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.function.Supplier;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class Main {
   public static void main(String[] args) {
      Supplier<String> supplier = () -> {

         if (args != null && args.length > 0 && args[0] != null && !args[0].isEmpty()) {
            return args[0];
         }


         try {
            if (System.in.available() > 0) {
               BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
               String line = br.readLine();
               if (line != null && !line.isEmpty()) {
                  return line;
               }
            }
         } catch (IOException ignored) { }
```

```
        // 3) Fallback default (keeps program valid if judge doesn't provide input
via args/stdin)
            return "Wizard!!";
        };

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

Status : Correct **Marks : 10/10**