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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.*;
import java.util.function.*;
public class Main
{
   public static void main(String[] args)
   {
      Scanner sc = new Scanner(System.in);
      StringBuilder sb = new StringBuilder();
      while (sc.hasNextLine())
      {
         if (sb.length() > 0) sb.append(System.lineSeparator());
         sb.append(sc.nextLine());
      }
      sc.close();
      String provided = sb.toString().trim();
      Supplier<String> supplyWord = () -> provided.isEmpty() ? "Wizard!!" :
provided;
      String word = supplyWord.get();
      String reversed = new StringBuilder(word).reverse().toString();
      System.out.println(reversed);
   }
}
```

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