// Wap to design a string class that perform string methods equal reverse and case sense

import java.util.Scanner;

// Custom String class

class CustomString {

private String str;

// Constructor to initialize the string

public CustomString(String str) {

this.str = str;

}

// Method to check if two strings are equal (case-sensitive)

public boolean equals(CustomString other) {

return this.str.equals(other.str);

}

// Method to check if two strings are equal (case-insensitive)

public boolean equalsIgnoreCase(CustomString other) {

return this.str.equalsIgnoreCase(other.str);

}

// Method to reverse the string

public String reverse() {

StringBuilder reversed = new StringBuilder(this.str);

return reversed.reverse().toString();

}

// Getter method to return the original string

public String getString() {

return this.str;

}

}

// Main class to run the example

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in); // Create a Scanner object for user input

// Input the first string

System.out.print("Enter the first string: ");

String input1 = scanner.nextLine();

CustomString str1 = new CustomString(input1);

// Input the second string

System.out.print("Enter the second string: ");

String input2 = scanner.nextLine();

CustomString str2 = new CustomString(input2);

// Check if strings are equal (case-sensitive)

System.out.println("Are the strings equal (case-sensitive)? " + str1.equals(str2));

// Check if strings are equal (case-insensitive)

System.out.println("Are the strings equal (case-insensitive)? " + str1.equalsIgnoreCase(str2));

// Reverse the first string

System.out.println("Reversed first string: " + str1.reverse());

// Reverse the second string

System.out.println("Reversed second string: " + str2.reverse());

scanner.close(); // Close the Scanner object

}

}