**package** lucky;

**import** java.util.Scanner;

//import static com.sun.tools.javac.util.StringUtils.toLowerCase;

//import static com.sun.tools.javac.util.StringUtils.toUpperCase;

**public** **class** InputValidation {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

// Prompt the user to enter their name

System.***out***.print("Enter your String 1: ");

// Read the input entered by the user

String String1 = scanner.nextLine();

Scanner scanner1 = **new** Scanner(System.***in***);

System.***out***.print("Enter your String 2: ");

String String2 = scanner.nextLine();

//Concatenation

System.***out***.println(String1 +" "+ String2);

//Length of a string

System.***out***.println("Length : "+String1.length());

System.***out***.println("Length : "+String2.length());

//Uppercase and Lowercase

System.***out***.println("UPPERCASE : "+String1.toUpperCase());

System.***out***.println("UPPERCASE : "+String2.toUpperCase());

System.***out***.println("LOWERCASE : "+String1.toLowerCase());

System.***out***.println("LOWERCASE : "+String2.toLowerCase());

//Extract Substring

System.***out***.println("SUBSTRING : " +String1.substring(1,4));

//System.out.println("SUBSTRING : " +String2.substring(0,4));

//Split a sentence

// Split the sentence into words using whitespace as the delimiter

String[] words = String1.split(" ");

// Display each word

System.***out***.println("Words in the sentence:");

**for** (String word : words) {

System.***out***.println(word);

}

//Reverse String

String reversed = *reverseString*(String1);

System.***out***.println("Original string: " + String1);

System.***out***.println("Reversed string: " + reversed);

}

**public** **static** String reverseString(String String1) {

// Convert the string to a character array

**char**[] charArray = String1.toCharArray();

**int** left = 0;

**int** right = charArray.length - 1;

// Swap characters from both ends until we reach the middle

**while** (left < right) {

// Swap charArray[left] and charArray[right]

**char** temp = charArray[left];

charArray[left] = charArray[right];

charArray[right] = temp;

// Move towards the middle

left++;

right--;

}

// Convert the character array back to a string

**return** **new** String(charArray);

}

}

Output :

