import java.io.FileNotFoundException;

import java.io.IOException;

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public class **StringReverseExample** {

    public static void **main**(String args[]) throws FileNotFoundException, IOException {

        //original string

        String str = "Sony is going to introduce Internet TV soon";

        System.out.println("Original String: " + str);

**//reversed string using Stringbuffer**

        String reverseStr = new StringBuffer(str).reverse().toString();

        System.out.println("Reverse String in Java using StringBuffer: " + reverseStr);

**//iterative method to reverse String in Java**

        reverseStr = reverse(str);

        System.out.println("Reverse String in Java using Iteration: " + reverseStr);

**//recursive method to reverse String in Java**

        reverseStr = reverseRecursively(str);

        System.out.println("Reverse String in Java using Recursion: " + reverseStr);

    }

    public static String **reverse**(String str) {

        StringBuilder strBuilder = new StringBuilder();

        char[] strChars = str.toCharArray();

        for (int i = strChars.length - 1; i >= 0; i--) {

            strBuilder.append(strChars[i]);

        }

        return strBuilder.toString();

    }

    public static String **reverseRecursively**(String str) {

**//base case to handle one char string and empty string**

        if (str.length() < 2) {

            return str;

        }

        return reverseRecursively(str.substring(1)) + str.charAt(0);

    }

}