public class stringDemo {

public static void main(String[] args) {

// methods of strings

System.out.println("Methods of Strings");

String sl = new String("Hello World");

System.out.println(sl.length());

// substring

String sub = new String("Welcome");

System.out.println(sub.substring(2));

// String Comparison

String s1 = "Hello";

String s2 = "Heldo";

System.out.println(s1.compareTo(s2));

// IsEmpty

String s4 = "";

System.out.println(s4.isEmpty());

// toLowerCase

String s5 = "Hello";

System.out.println(s5.toLowerCase());

// replace

String s6 = "Heldo";

String replace = s6.replace('d', 'l');

System.out.println(replace);

// equals

String x = "Welcome to Java";

String y = "WeLcOmE tO JaVa";

System.out.println(x.equals(y));

System.out.println("\n");

System.out.println("Creating StringBuffer");

// Creating StringBuffer and append method

StringBuffer s = new StringBuffer("Welcome to Java!");

s.append("Enjoy your learning");

System.out.println(s);

// insert method

s.insert(0, 'w');

System.out.println(s);

// replace method

StringBuffer sb = new StringBuffer("Hello");

sb.replace(0, 2, "hEl");

System.out.println(sb);

// delete method

sb.delete(0, 1);

System.out.println(sb);

// StringBuilder

System.out.println("\n");

System.out.println("Creating StringBuilder");

StringBuilder sb1 = new StringBuilder("Happy");

sb1.append("Learning");

System.out.println(sb1);

System.out.println(sb1.delete(0, 1));

System.out.println(sb1.insert(1, "Welcome"));

System.out.println(sb1.reverse());

// conversion

System.out.println("\n");

System.out.println("Conversion of Strings to StringBuffer and StringBuilder");

String str = "Hello";

// conversion from String object to StringBuffer

StringBuffer sbr = new StringBuffer(str);

sbr.reverse();

System.out.println("String to StringBuffer");

System.out.println(sbr);

// conversion from String object to StringBuilder

StringBuilder sbl = new StringBuilder(str);

sbl.append("world");

System.out.println("String to StringBuilder");

System.out.println(sbl);

}

}