String

String a = "a";
String b = a; // a and b have same address currently
System.out.println("Compare address " + (a == b));

```
a 0x100
b 0x100
0x100 "a"
```

Compare address true

a = a + "aaa";
System.out.println("Compare address " + (a == b));

```
a 0x200
b 0x100
0x200 "aaaa"
0x100 "aaaa"
```

"immutable"

Compare address false
Generating String Object

```java
String str1 = "abc";
String str2 = "abc";
String str3 = new String("abc");
String str4 = new String("abc");
```

```
System.out.println("Compare address " + (str1 == str2));
System.out.println("Compare address " + (str3 == str4));
System.out.println("Compare content " + (str1.equals(str2)));
System.out.println("Compare content " + (str1.equals(str2)));
```

Compare address true
Compare address false
Compare content true
Compare content true
Stringbuffer

StringBuffer sb1 = new StringBuffer("abc");
StringBuffer sb2 = sb1;
System.out.println("Compare address " + (sb1 == sb2));

sb1 0x100 0x100 "abc" Compare address true
sb2 0x100

sb1 = sb1.append("def");
System.out.println("Compare address " + (sb1 == sb2));

sb1 0x100 0x100 "abcdef" "mutable"
sb2 0x100 "abcdef" Compare address true

System.out.println("sb1: " + sb1.toString());
System.out.println("sb2: " + sb2.toString());

sb1: abcdef sb2: abcdef