

StringEx3.java

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1
2 public class StringEx3 {
3     public static void main(String[] args) {
4         String s1=new String("Rahul");
5         String s2="Rahul";
6         String s3=new String("Rahul");
7         String s4="Rahul";
8         String s5=new String("Rahul");
9         String s6="Rahul";
10        System.out.println(s1);
11        System.out.println(s2);
12        System.out.println(s3);
13        System.out.println(s4);
14        System.out.println(s5);
15        System.out.println(s6);
16        System.out.println(s1==s3); //false [== is comparing the references of String]
17        System.out.println(s2==s4); //true
18        System.out.println(s1==s2); //false
19        System.out.println(s1.equals(s2)); //true [equals() is comparing the data of String]
20        System.out.println(s1.equals(s3)); //true
21        System.out.println(s3.equals(s4)); //true
22        s1=null;
23        s2=null;

```

Handwritten Annotations:

- Stack Memory (Identifiers):** Points to the variable declarations in the code.
- Pool Memory (Compile Time Literals):** Points to the String literals "Rahul" that are stored in the String Pool. It notes "No Duplication" and "No GC".
- Heap Memory (Runtime):** Points to the new String objects created at runtime. It notes "Duplication" and "GC".