

Quiz: Basic Instance Methods

Given the following test class, TestStudent, and the resulting output:

```
1 public class TestStudent {
2     public static void main(String[] args) {
3         Student bill1 = new Student("Billy Ichi", 1234);
4         Student bill2 = new Student("Billy Ni", 1235);
5         Student jane1 = new Student("Jane Doe", 1245);
6         Student jane2 = new Student("Jane Doe", 1245);
7         Student james1 = new Student("James Bond", 007);
8         Student james2 = new Student("James Bond", 006);
9
10        compare(bill1, bill2);
11        compare(jane1, jane2);
12        compare(james1, james2);
13    }
14
15    public static void compare(Student s1, Student s2) {
16        if(s1.equals(s2)) {
17            System.out.println(s1 + " is the same as " + s2);
18        } else {
19            System.out.println(s1 + " is different from " + s2);
20        }
21    }
22 }
```

```
1 Billy Ichi (#1234) is different from Billy Ni (#1235)
2 Jane Doe (#1245) is the same as Jane Doe (#1245)
3 James Bond (#7) is different from James Bond (#6)
```

Write the complete and minimalistic class `Student`. Here follows some additional specifications and hints. The class will require

- two fields; make all fields private
- a constructor that sets both of the fields
- an `equals` method, which returns `true` if both fields in the object (`this`) contain the same value as the corresponding fields of the parameter object, otherwise `false`
- a `toString` method that returns a value that will result in the output shown in the example test code output

The number and types of parameter(s) for each specified method can be inferred from the test code.