

Java → Object-oriented programming → Inheritance and polymorphism → Nested classes → Inner classes

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Inner classes → Christmas tree

Medium 7 minutes ?

You have an outer class `ChristmasTree` and an inner class `TreeTopper`. Both classes have the field `color`.

In `TreeTopper` class create method `void sparkle`.

For *silver* tree topper and *green* Christmas tree the output of `sparkle()` will be:

```
1 | Sparkling silver tree topper looks stunning with green Christmas tree!
```

In the outer class create a method `void putTreeTopper` with one string parameter `color`.

In this method, you should create an instance of an inner class with parameter `color`, then call method `sparkle()` of `TreeTopper`.

Please, don't use `private` access modifier for methods.

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Write a program

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```
1 class ChristmasTree {
2
3     private String color;
4
5     public ChristmasTree(String color) {
6         this.color = color;
7     }
8
9     // create method putTreeTopper()
10    void putTreeTopper(String color) {
11        new TreeTopper(color).sparkle();
12    }
13
14    class TreeTopper {
15
16        private String color;
17
18        public TreeTopper(String color) {
19            this.color = color;
20        }
21
22        // create method sparkle()
23        void sparkle() {
24            System.out.printf("Sparkling %s tree topper looks stunning " +
25                             "with %s Christmas tree!\n", color, ChristmasTree.this.color);
26        }
27    }
28 }
29
30 // this code should work
31 class CreateHoliday {
32
33     public static void main(String[] args) {
34
35         ChristmasTree christmasTree = new ChristmasTree("green");
36         christmasTree.putTreeTopper("silver");
37     }
38 }
39
```

Java

✓ Correct.

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