

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

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# Anonymous classes → Calculator

Medium 5 minutes

There is an abstract class `Calculator`:

```
1 abstract class Calculator {
2
3     public abstract long sum(long val1, long val2);
4
5     public abstract long subtraction(long val1, long val2);
6 }
```

You should create an anonymous class that extends the given class and assign the instance to the variable `anonymousCalculator`.

The anonymous class must override both abstract methods of the class. The method `sum` should return the sum of its arguments. The method `subtraction` should return the difference between the first and second arguments.

Use the provided code template, do not copy the given class to the code.

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Write a program

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```
1 class CalculatorCreator {
2
3     public static Calculator createInstance() {
4         /* create an instance of an anonymous class here,
5         do not forget ; in the end */
6         return new Calculator() {
7             @Override
8             public long sum(long val1, long val2) {
9                 return val1 + val2;
10            }
11
12            @Override
13            public long subtraction(long val1, long val2) {
14                return val1 - val2;
15            }
16        };
17    }
18
19 }
20
21 abstract class Calculator {
22
23     public abstract long sum(long val1, long val2);
24
25     public abstract long subtraction(long val1, long val2);
26 }
27
```

Java

✓ Correct.

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