

```
1 package com.publiccept;
2
3 /**
4  * Fish extends Animal
5  * "extends" keyword: inherit from a super class (=parent-class)
6  *
7  */
8 public class Fish extends Animal {
9
10
11     // == fields ==
12     private int gills;
13     private int eyes;
14     private int fins;
15
16
17     // == constructors ==
18     public Fish(String name, int size, int weight, int gills, int eyes, int fins) {
19         /* super() must be called first in the extended constructor! */
20         super(name, 1, 1, size, weight);
21         this.gills = gills;
22         this.eyes = eyes;
23         this.fins = fins;
24     }
25
26
27
28     // == override methods ==
29     /**
30      * Dog.move()
31      * @param speed
32      */
33     @Override
34     public void move(int speed) {
35         System.out.println("Fish.move() called");
36         swim(speed);
37     }
38
39
40
41     // == public methods ==
42     public void rest() {
43         System.out.println("Fish.rest() called");
44         super.move(0);
45     }
46
47     public void moveMuscles() {
48         System.out.println("Fish.moveMuscles() called");
49     }
50
51     public void moveBackFin() {
52         System.out.println("Fish.moveBackFin() called");
53     }
54
55     public void swim(int speed) {
56         System.out.println("Fish.swim() called");
57         moveMuscles();
58         moveBackFin();
59         super.move(speed);
60     }
61 }
62
```