

Problem: Write a program to demonstrate encapsulation with a default constructor and parameterized constructor.

Code:

```
1  class Animal {
2
3
4      private String name;
5      private String food;
6      private int age;
7
8      public Animal() {
9      }
10
11     public Animal(String name, String food, int age) {
12         this.name = name;
13         this.age = age;
14         this.food = food;
15     }
16
17     public void setName(String name) {
18         this.name = name;
19     }
20
21     public void setFood(String food) {
22         this.food = food;
23     }
24
25     public void setAge(int age) {
26         this.age = age;
27     }
28
29     public String getName() {
30         return name;
31     }
32
33     public String getFood() {
34         return food;
35     }
36
37     public int getAge() {
38         return age;
39     }
40
41 }
42
43 public class Main {
44
45     public static void main(String[] args) {
46         Animal cat1 = new Animal();
47
48         cat1.setName("Piu");
49         cat1.setFood("Only cat foods");
50         cat1.setAge(3);
51
52         System.out.println("Cat_1 details.....");
53         System.out.println("Name : " + cat1.getName());
54         System.out.println("Age : " + cat1.getAge());
```

```

55     System.out.println("Food : " + cat1.getFood());
56
57     Animal cat2 = new Animal("Mini", "Rice&Fish", 0);
58     cat2.setAge(2);
59
60     System.out.println("Cat_2 details.....");
61     System.out.println("Name : " + cat2.getName());
62     System.out.println("Age : " + cat2.getAge());
63     System.out.println("Food : " + cat2.getFood());
64
65 }
66 }

```

Output:

```

--- exec:3.1.0:exec (default-cli) @ Practice ---
Cat_1 details.....
Name : Piu
Age : 3
Food : Only cat foods
Cat_2 details.....
Name : Mini
Age : 2
Food : Rice&Fish
-----
BUILD SUCCESS
-----
Total time:  0.486 s
Finished at: 2025-03-10T05:54:13+06:00
-----

```