Java → Object-oriented programming → Classes and objects → Constructor

Constructor → Account and its owner

📊 Medium   🕐 6 minutes ⓘ

There are two classes: **Account** with three fields (`code` , `balance` , `owner`) and **User** with three fields (`login` , `firstName` , `lastName`). Both classes have parameterized constructors. See full declarations of these classes in the code template. Do not be afraid of the `static` keyword. It's not important now.

In the main method, create an instance of the Account class and pass it to the process method by calling **process(account)**. This method is already defined.

The instance must have the following values of the fields:

- code: "123456",
- balance: 1000,
- owner: (login: "demo-user", firstName: "Alexander", lastName: "Schmidt").

Note that the owner is an instance of the **User** class.

See provided template, do not change it.

📄 Report a typo

↓ Write a program

[Code Editor](#)   [IDE](#)

```java
                                                                                          Java
 1  import java.util.Optional;
 2
 3  public class Main {
 4
 5
 6      public static void main(String[] args) {
 7
 8          // create an instance of Account here
 9          User user = new User("demo-user", "Alexander", "Schmidt");
10          Account account = new Account("123456", 1000, user);
11          // pass it into process method
12          process(account);
13
14      }
15
16      static class Account {
17
18          private String code;
19          private long balance;
20          private User owner;
21
22          public Account(String code, long balance, User owner) {
23              this.code = code;
24              this.balance = balance;
25              this.owner = owner;
26          }
27
28          public String getCode() {
29              return code;
30          }
31
32          public long getBalance() {
33              return balance;
34          }
35
36          public User getOwner() {
37              return owner;
38          }
39      }
40
41      static class User {
42
43          private String login;
44          private String firstName;
45          private String lastName;
46
```

```
47          public User(String login, String firstName, String lastName) {
48              this.login = login;
49              this.firstName = firstName;
50              this.lastName = lastName;
51          }
52
53          public String getLogin() {
54              return login;
55          }
56
57          public String getFirstName() {
58              return firstName;
59          }
60
61          public String getLastName() {
62              return lastName;
63          }
64      }
65
66
67      public static void process(Account account) {
68          try {
69              final Optional<User> owner = Optional.ofNullable(account.getOwner());
70
71              System.out.println(account.getCode());
72              System.out.println(account.getBalance());
73
74              owner.ifPresent(o -> {
75                  System.out.println(o.getLogin());
76                  System.out.println(o.getFirstName());
77                  System.out.println(o.getLastName());
78              });
79
80          } catch (Exception e) {
81              System.out.println("Something wrong...");
82          }
83      }
84  }
85
```

✔ Correct.

That's an awesome solution! What do you think about showing it off? **Post it to Solutions** so other learners can enjoy it too.

526 users liked this problem. **31** didn't like it. **What about you?**

😍 🙂 😐 🙁 😡

Continue   Solve again   Solutions (110)

Time limit: 8 seconds   Memory limit: 256 MB

Comments (30)   Hints (12)   Useful links (0)   Solutions (110)   Show discussion