

# JAVA PROGRAMMING COURSE

## EXERCISE

### CODE BLOCKS IN JAVA

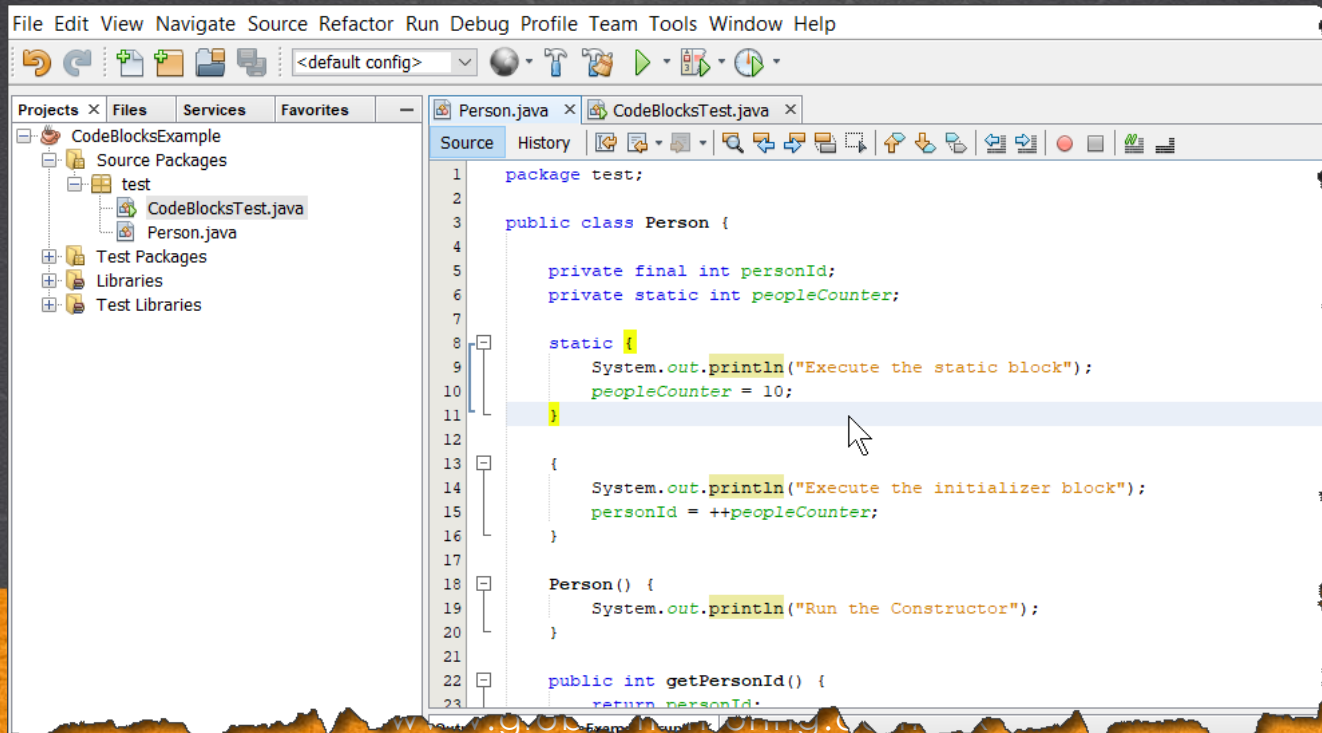


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# EXERCISE OBJECTIVE

Create an exercise in the use of code blocks. At the end we should observe the following:



# 1. CREATE A NEW PROJECT

Create a new project:

**New Java Application**

**Steps**

1. Choose Project
2. **Name and Location**

**Name and Location**

Project Name:

Project Location:

Project Folder:

☐ Use Dedicated Folder for Storing Libraries

Libraries Folder:

Different users and projects can share the same compilation libraries (see Help for details).

☐ Create Main Class

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## 2. CREATE A NEW CLASS

Create a new class:

**New Java Class**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

Package:

Created File:

< Back   Next >   **Finish**   Cancel   Help

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# 3. MODIFY THE CODE

## Person.java:

```
package test;

public class Person {

    private final int personId;
    private static int peopleCounter;

    static {
        System.out.println("Execute the static block");
        peopleCounter = 10;
    }

    {
        System.out.println("Execute the initializer block");
        personId = ++peopleCounter;
    }

    Person() {
        System.out.println("Run the Constructor");
    }

    public int getPersonId() {
        return personId;
    }

}
```

## 4. CREATE A NEW CLASS

Create a new class:

**New Java Class**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

Package:

Created File:

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## 4. MODIFY THE CODE

### CodeBlocksTest.java:

```
package test;

public class CodeBlocksTest {

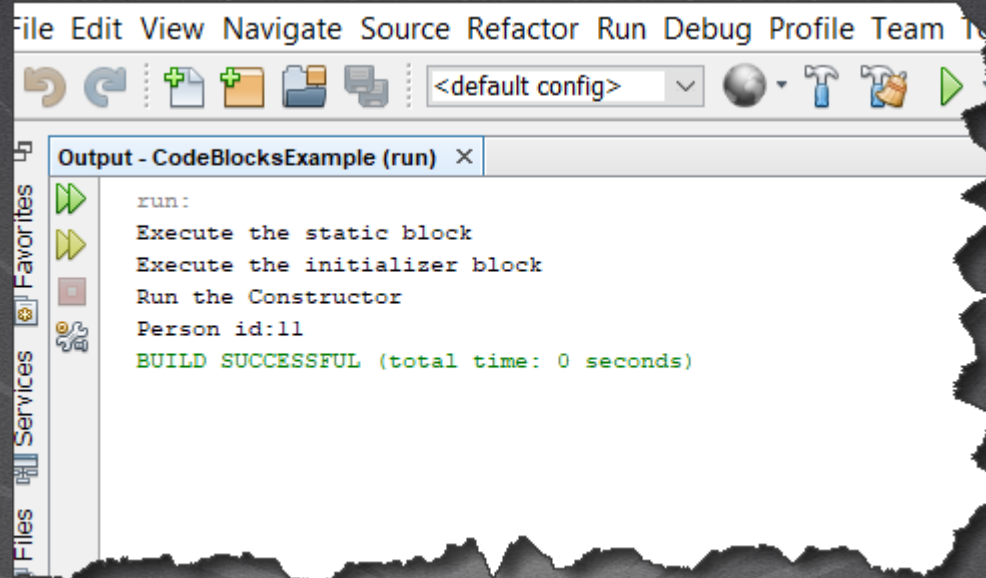
    public static void main(String[] args) {

        Person p1 = new Person();
        int id = p1.getPersonId();
        System.out.println("Person id:" + id);
    }
}
```



## 5. EXECUTE THE PROJECT

The result is as follows:

A screenshot of an IDE's output window. The window title is "Output - CodeBlocksExample (run) x". The output text shows the execution steps: "run:", "Execute the static block", "Execute the initializer block", "Run the Constructor", "Person id:11", and "BUILD SUCCESSFUL (total time: 0 seconds)". The IDE interface includes a menu bar (File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team) and a toolbar with icons for running and debugging. The left sidebar shows "Files", "Services", and "Favorites" panels.

```
run:
Execute the static block
Execute the initializer block
Run the Constructor
Person id:11
BUILD SUCCESSFUL (total time: 0 seconds)
```

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# EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of code blocks, we have seen how to use them to initialize variables, both static and non-static.
- These blocks will be used to initialize variables that may need more complex processes to assign the value, or we simply do not have yet the value to assign to the variable. For more information you can see:
- <https://docs.oracle.com/javase/tutorial/java/javaOO/initial.html>

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# **JAVA PROGRAMMING**

By: Eng. Ubaldo Acosta



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