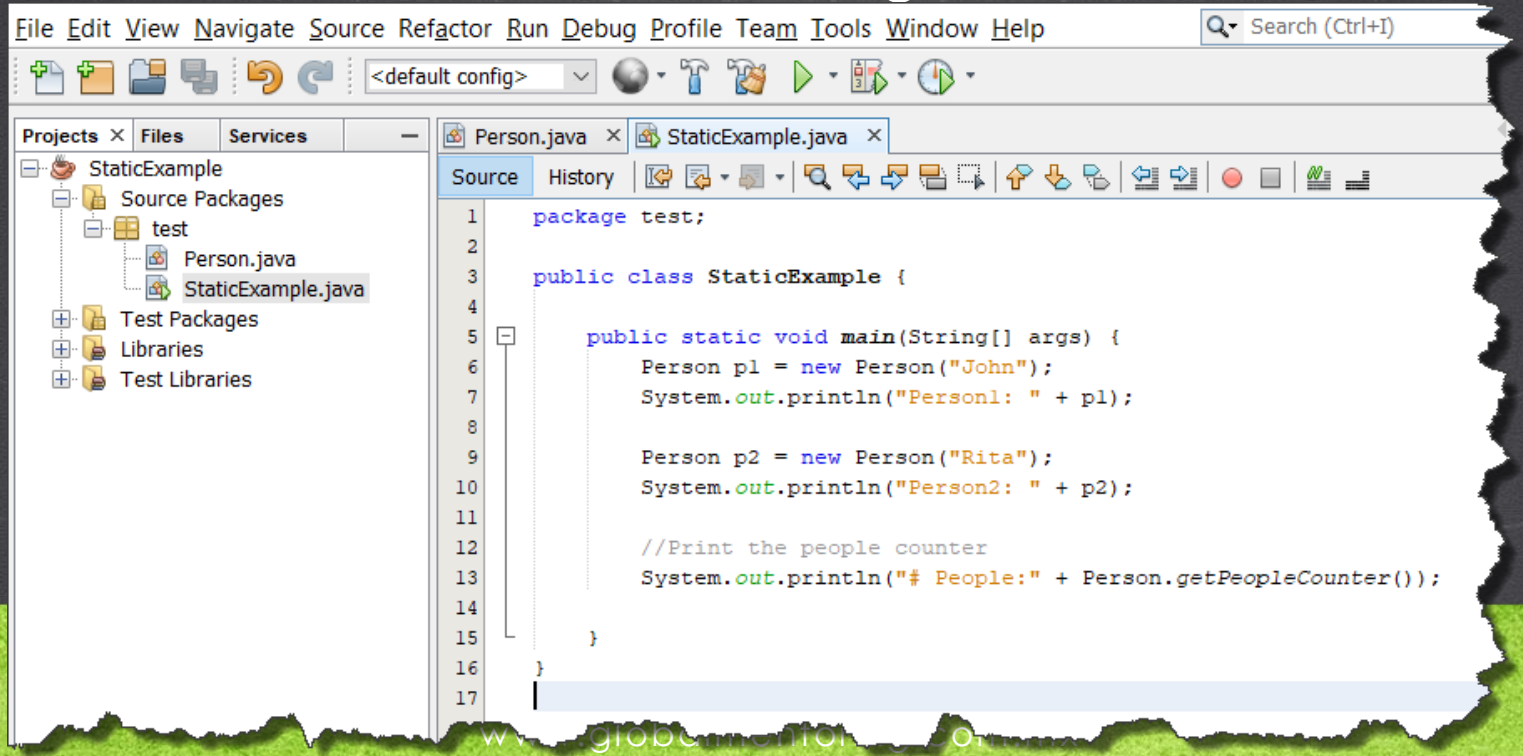
EXERCISE

STATIC CONTEXT IN JAVA

EXERCISE OBJECTIVE

Create a program to implement static context concept. At the end we should observe the following:

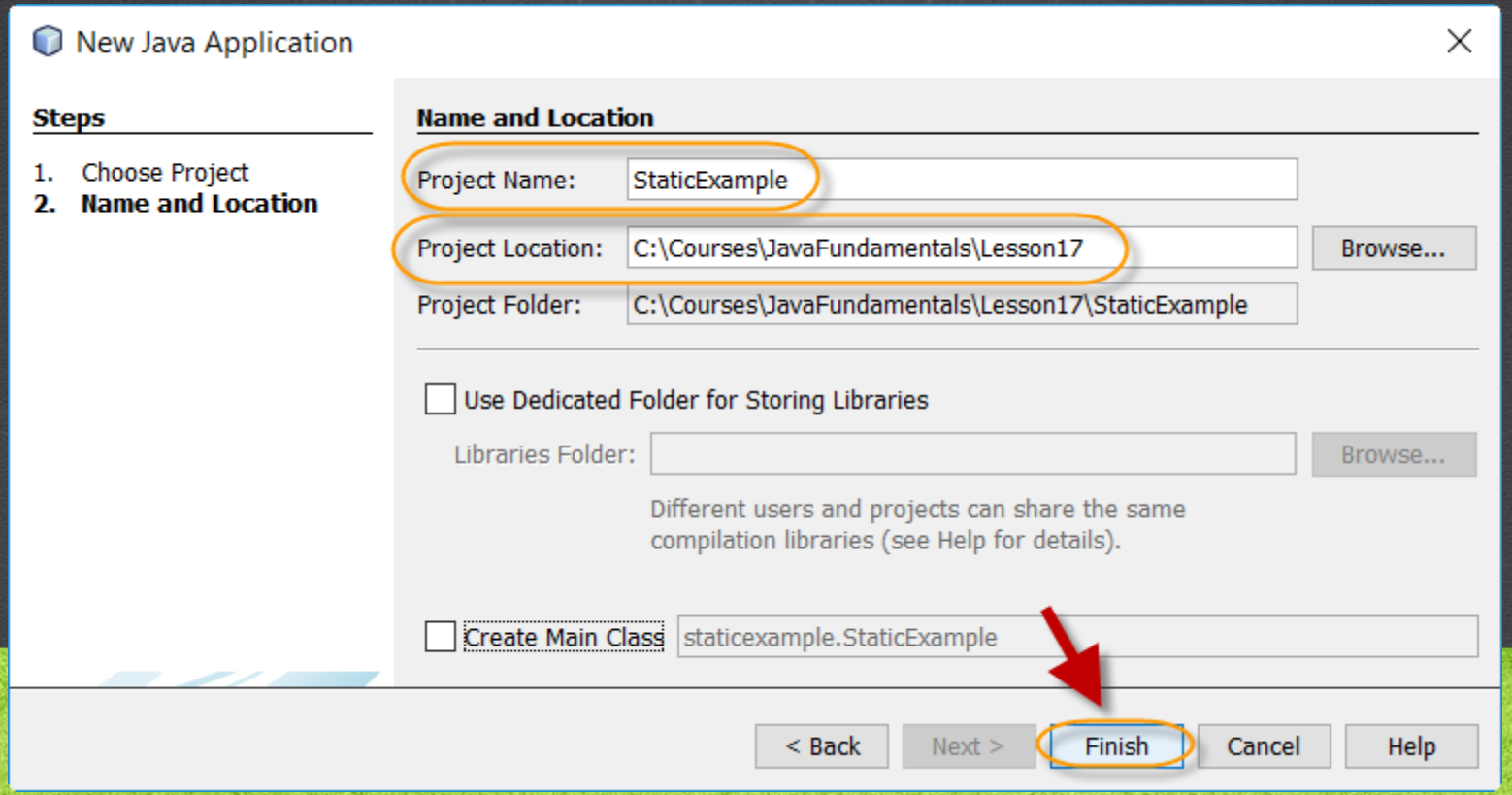


NOTE

We will omit the steps that have been repeated over and over again, but if you have any doubt creating a project, creating a class, or executing a project you can review the previous lessons.

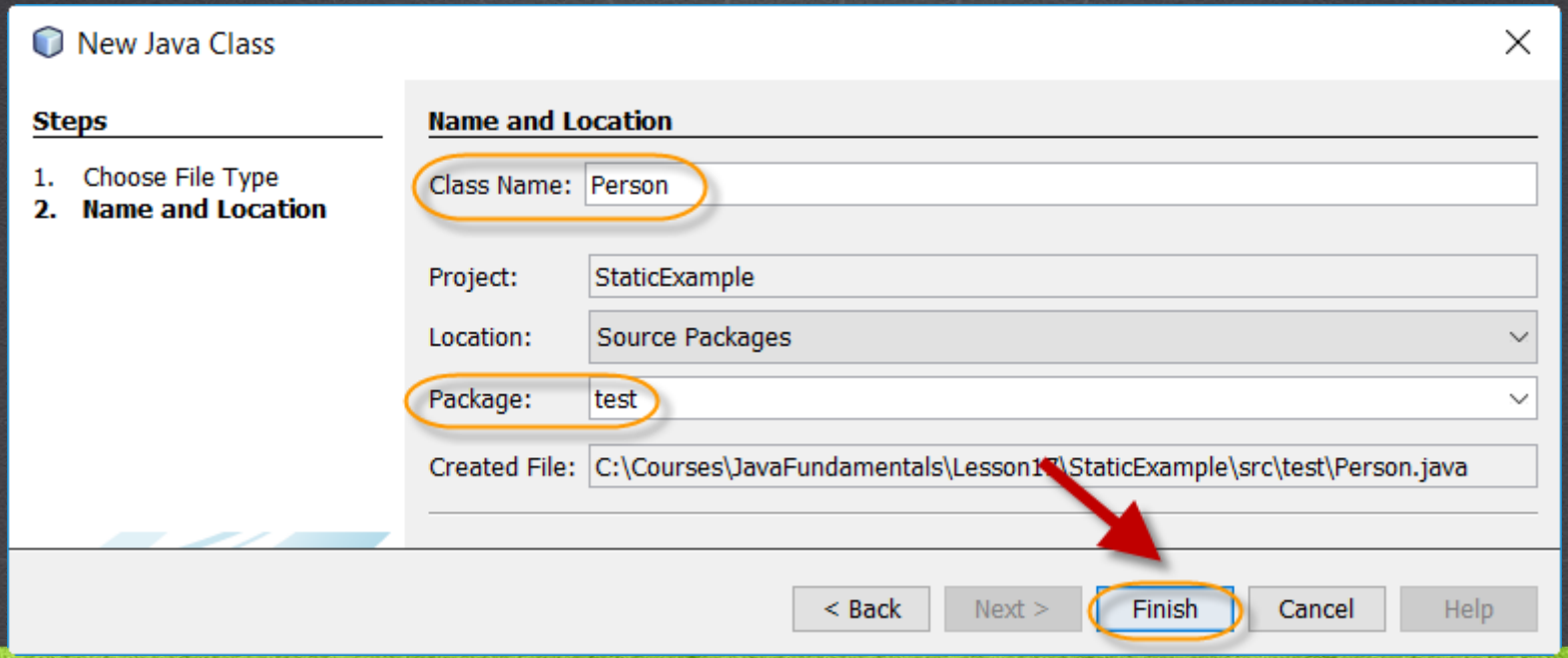
1. CREATE A PROJECT

Create a new project:



2. CREATE A NEW CLASS

Create a new class



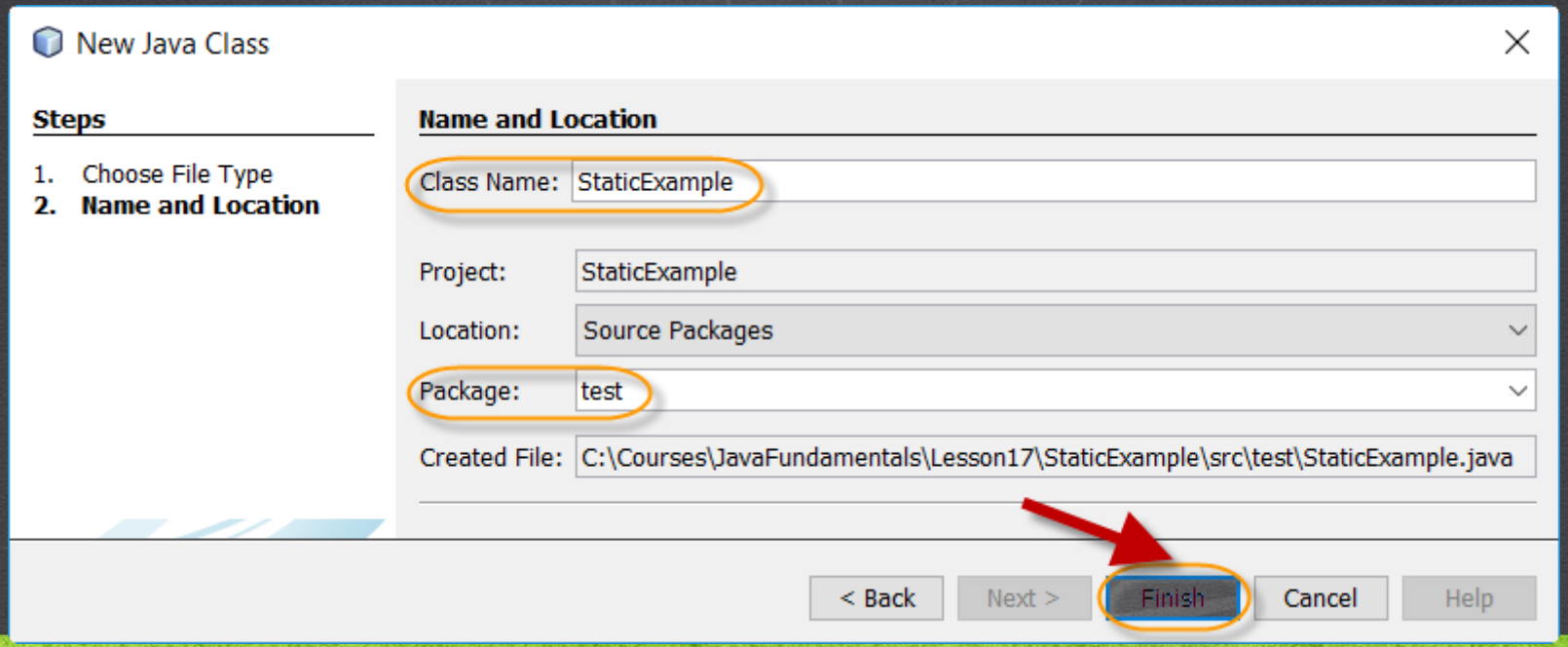
3. MODIFY THE CODE

Person.java:

```
package test;

public class Person {

    private int idPerson;
    private String name;
    private static int peopleCounter;

    public Person(String name) {
        //Every time we create a Person object
        //we increase the counter to obtain a new idPerson
        peopleCounter++;
        //we assign the new value to idPerson
        idPerson = peopleCounter;
        //We assign the received name
        this.name = name;
    }

    public String toString() {
        return "Person[idPerson: " + idPerson + ", name: " + name + "]";
    }

    public static int getPeopleCounter() {
        return peopleCounter;
    }
}
```

4. CREATE A NEW CLASS

Create a new class



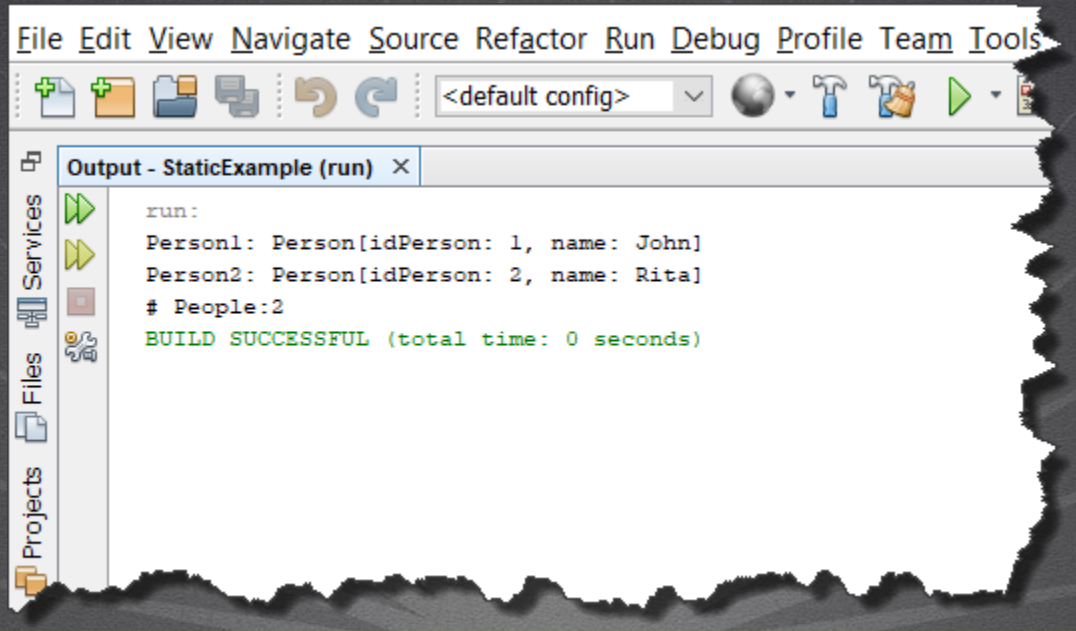
5. MODIFY THE CODE

StaticExample.java:

```
package test;

public class StaticExample {

    public static void main(String[] args) {
        Person p1 = new Person("John");
        System.out.println("Person1: " + p1);

        Person p2 = new Person("Rita");
        System.out.println("Person2: " + p2);

        //Print the people counter
        System.out.println("# People:" + Person.getPeopleCounter());

    }
}
```

6. EXECUTE THE PROJECT

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the static context.
- For more information on this concept, consult:
- https://docs.oracle.com/javase/tutorial/java/javaOO/classvars.html

ONLINE COURSE

JAVA FUNDAMENTALS

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