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EXERCISE

FINAL KEYWORD

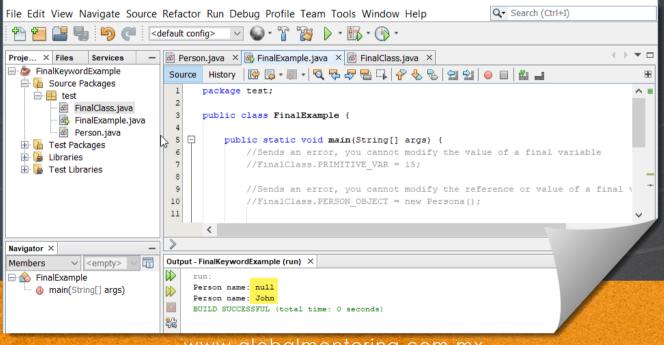


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EXERCISE OBJECTIVE

Create an exercise to put into practice the use of the final word. At the end we should observe the following:



CONVENTION

In Java if a variable is declared as **final** and static, it is considered a constant, since its value can no longer change, therefore follows the following nomenclature. The name of the variable must be written in uppercase and if the variable name contains more than one word, then each word is separated by a hyphen under. And it's recommended to declare and initialize the variable at the same time.

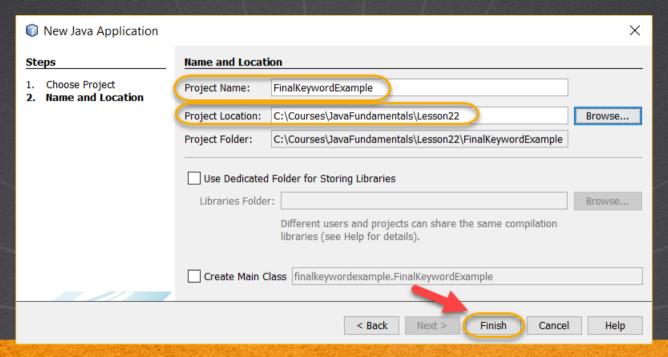
For example:

public static final int MAX_ELEMENTS = 10;

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1. CREATE A NEW PROJECT

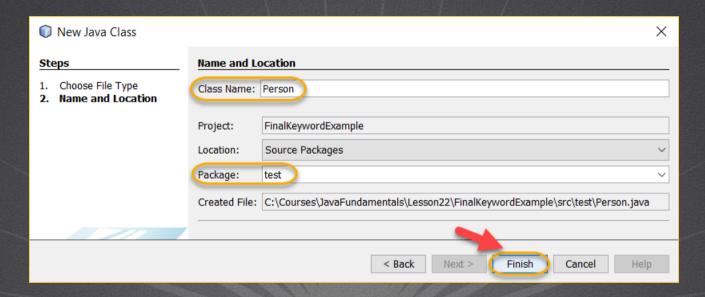
Create a new project:



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2. CREATE A CLASS

Create a new class:



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3. MODIFY THE CODE

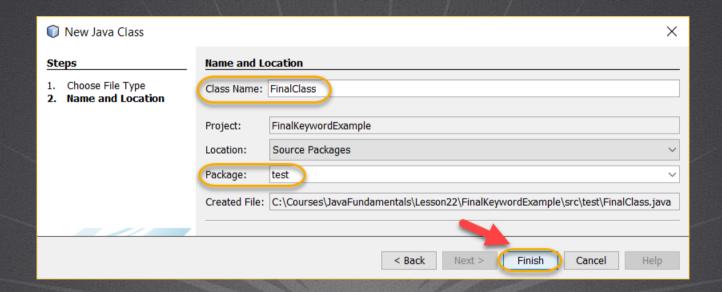
Person.java:

```
package test;
public class Person {
    private String name;
    public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
```

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4. CREATE A CLASS

Create a class:



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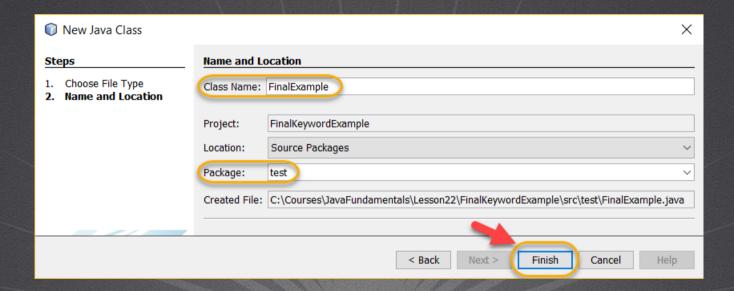
PASO 5. MODIFICAMOS EL CÓDIGO

FinalClass.java:

```
package test;
public final class FinalClass {
    //Variables marked as final
    public static final int PRIMITIVE VAR = 10;
    public static final Person PERSON OBJECT = new Person();
    //final method, we will study the overwriting topic in another lesson
    public final void metodoFinal(){
//Sends an error: Cannot inherit from a final class
//class ChildClass extends FinalClass{ }
```

4. CREATE A CLASS

Create a class:



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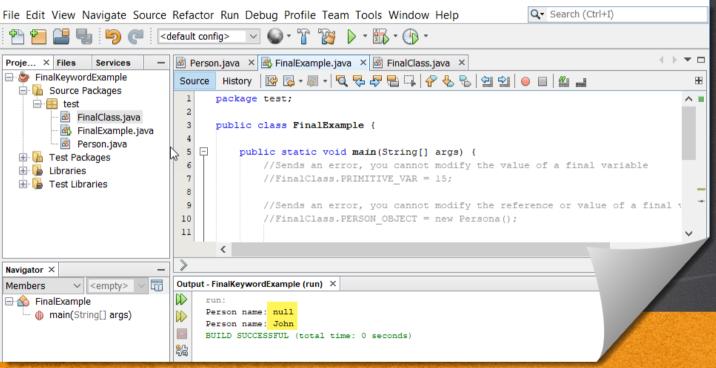
PASO 6. MODIFICAMOS EL CÓDIGO

FinalExample.java

```
package test;
public class FinalExample {
    public static void main(String[] args) {
        //Sends an error, you cannot modify the value of a final variable
        //FinalClass.PRIMITIVE VAR = 15;
        //Sends an error, you cannot modify the reference or value of a final variable
        //FinalClass.PERSON OBJECT = new Persona();
         System.out.println("Person name: " + FinalClass.PERSON OBJECT.getName());
        //But it is possible to modify the state of the object
        //referenced by the final variable
        FinalClass.PERSON OBJECT.setName("John");
        System.out.println("Person name: " + FinalClass.PERSON OBJECT.getName());
```

7. EXECUTE THE PROJECT

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the use of the final keyword.
- We have seen that it is possible to use the final keyword in 3 areas: when declaring a variable, in a method and in a class, and each one has its details. Later we will see in depth the topic of overwriting, and there we will return to the use of the final word to avoid overwriting, a concept that we will review in the next level.

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