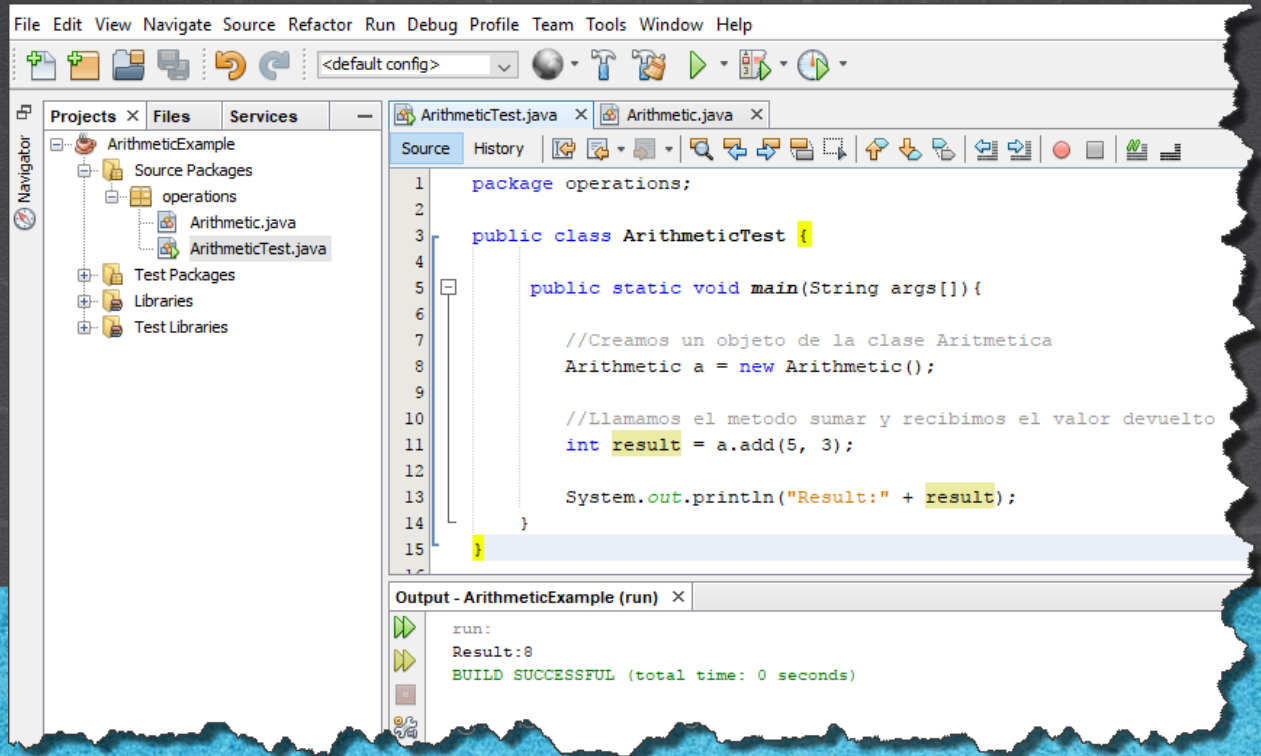
JAVA FUNDAMENTALS COURSE

EXERCISE

ARITHMETIC PROJECT

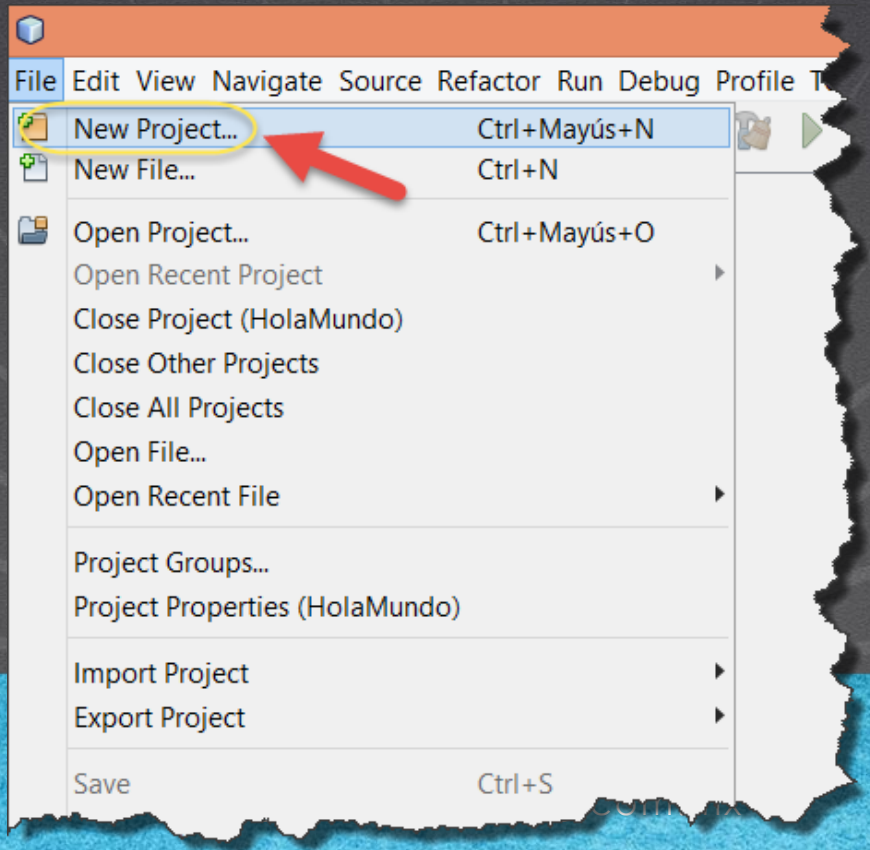
EXERCISE OBJECTIVE

Create the Arithmetic exercise. At the end we should observe the following:



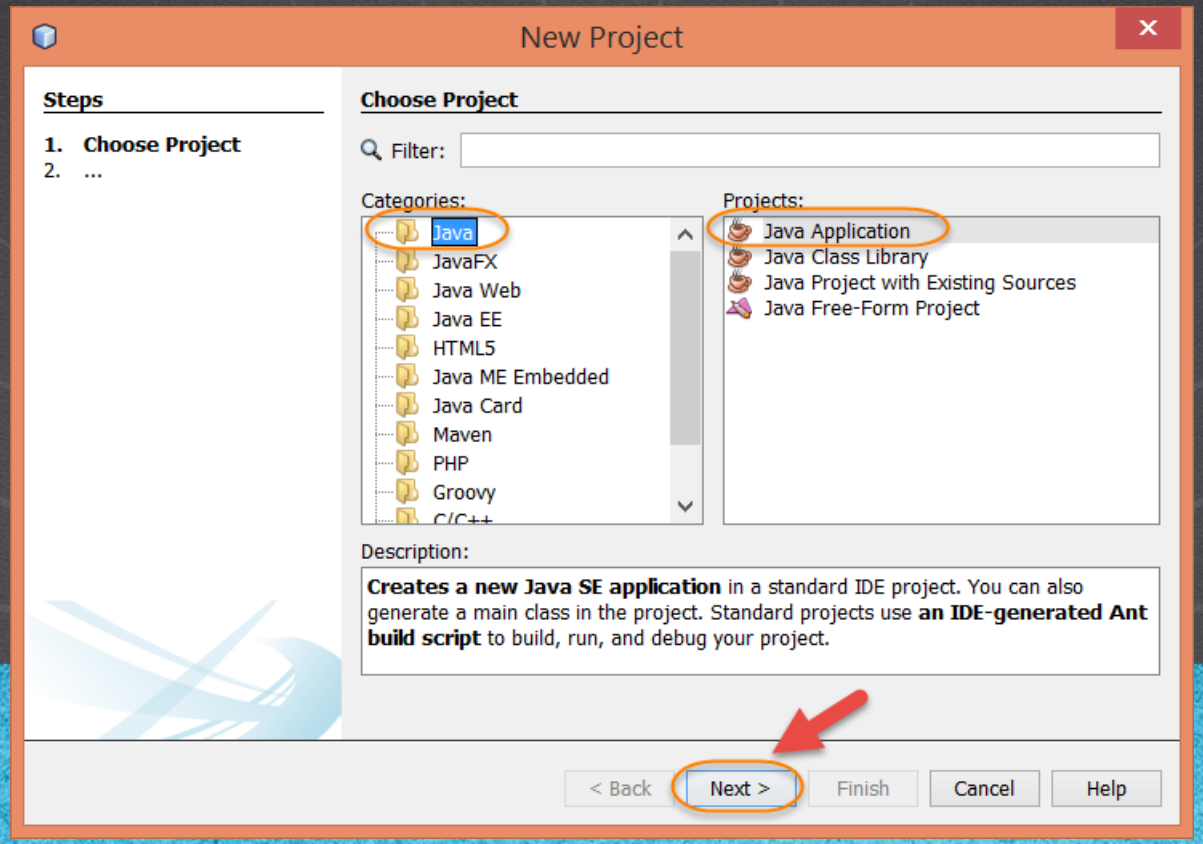
1. CREATE A NEW PROJECT

We are going to create the Arithmetic project:



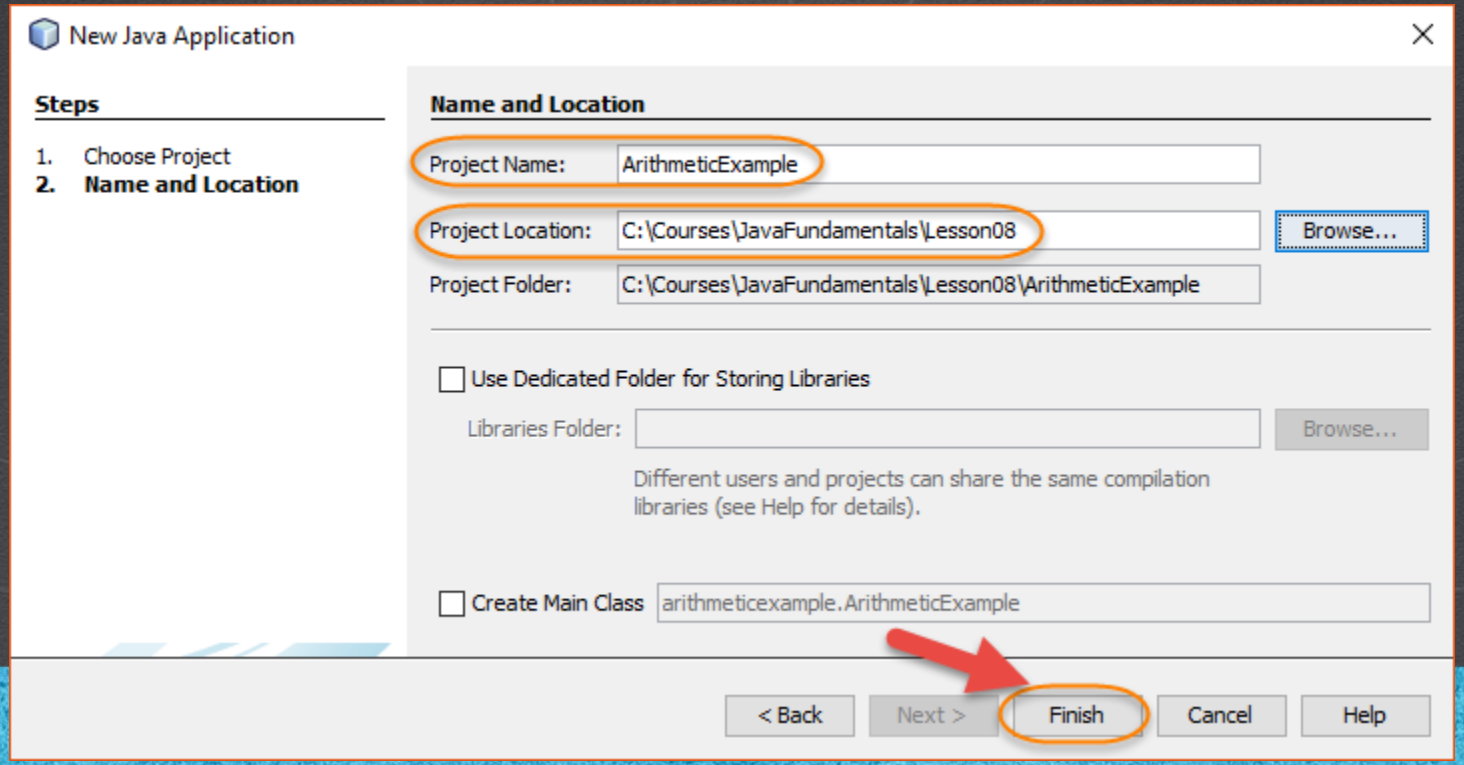
1. CREATE A NEW PROJECT (CONT)

Select Java -> Java Application:



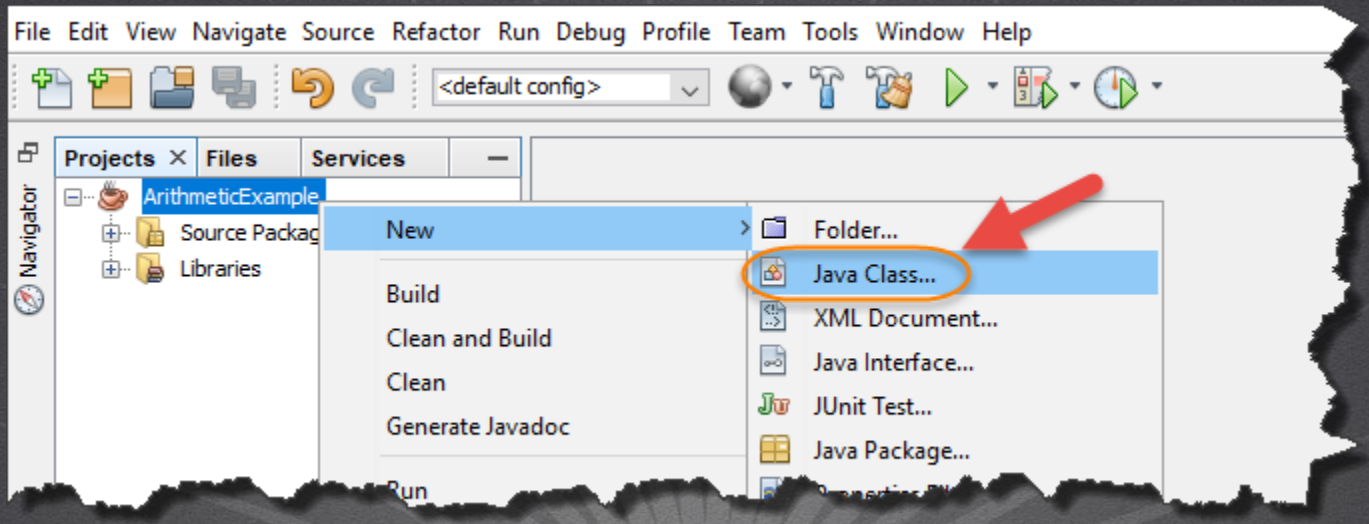
1. CREATE A NEW PROJECT (CONT)

We are going to create the Arithmetic project:



2. ARITHMETIC CLASS CREATION

We create the Arithmetic class :



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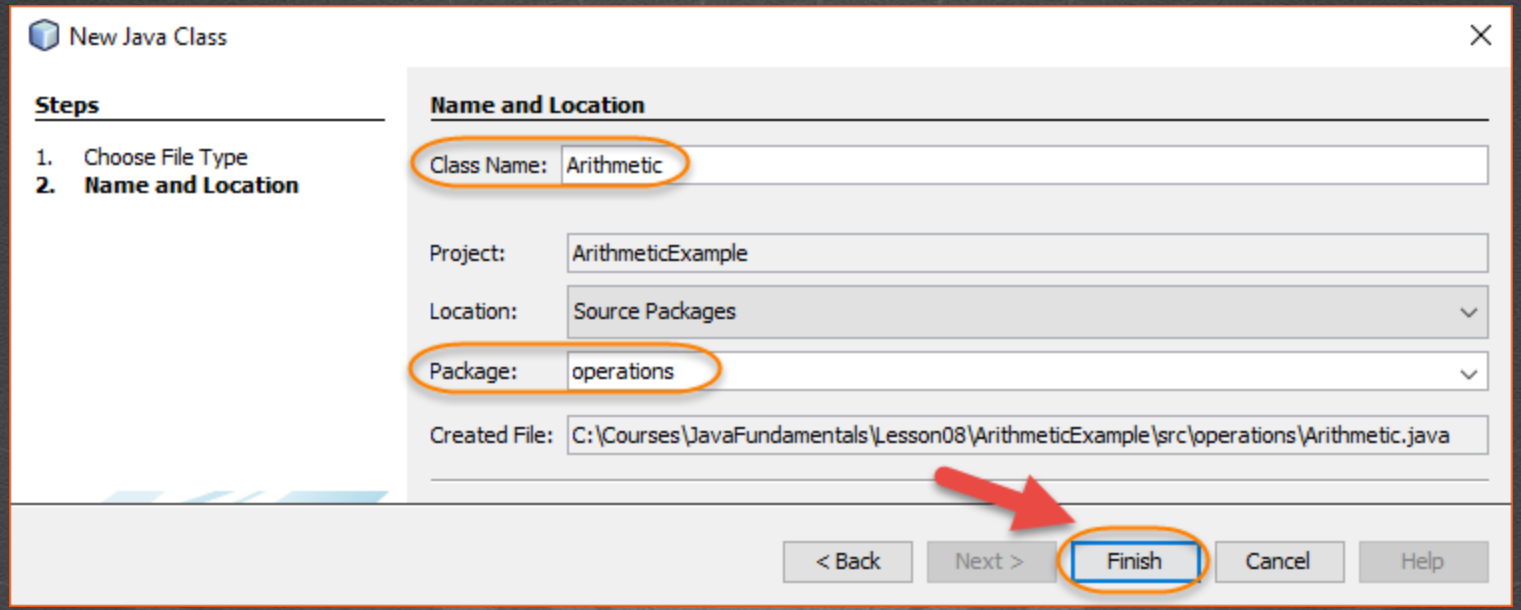


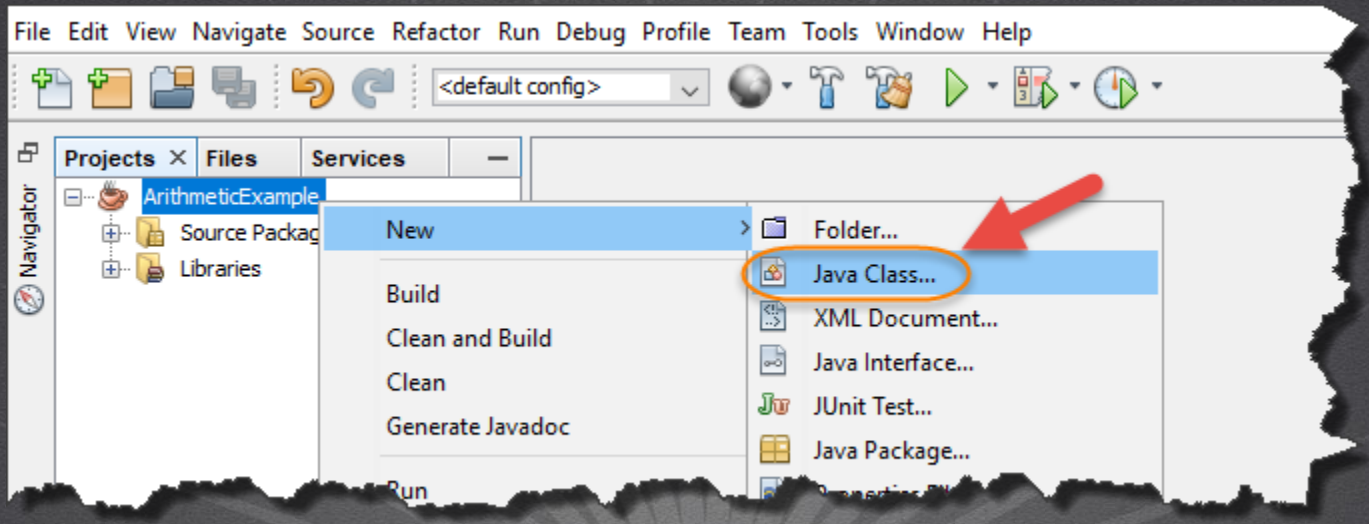
3. MODIFY THE CODE

Arithmetic.java:

```
package operations;

public class Arithmetic {
    //add operation
    int add(int a, int b) {
        return a + b;
    }
}
```

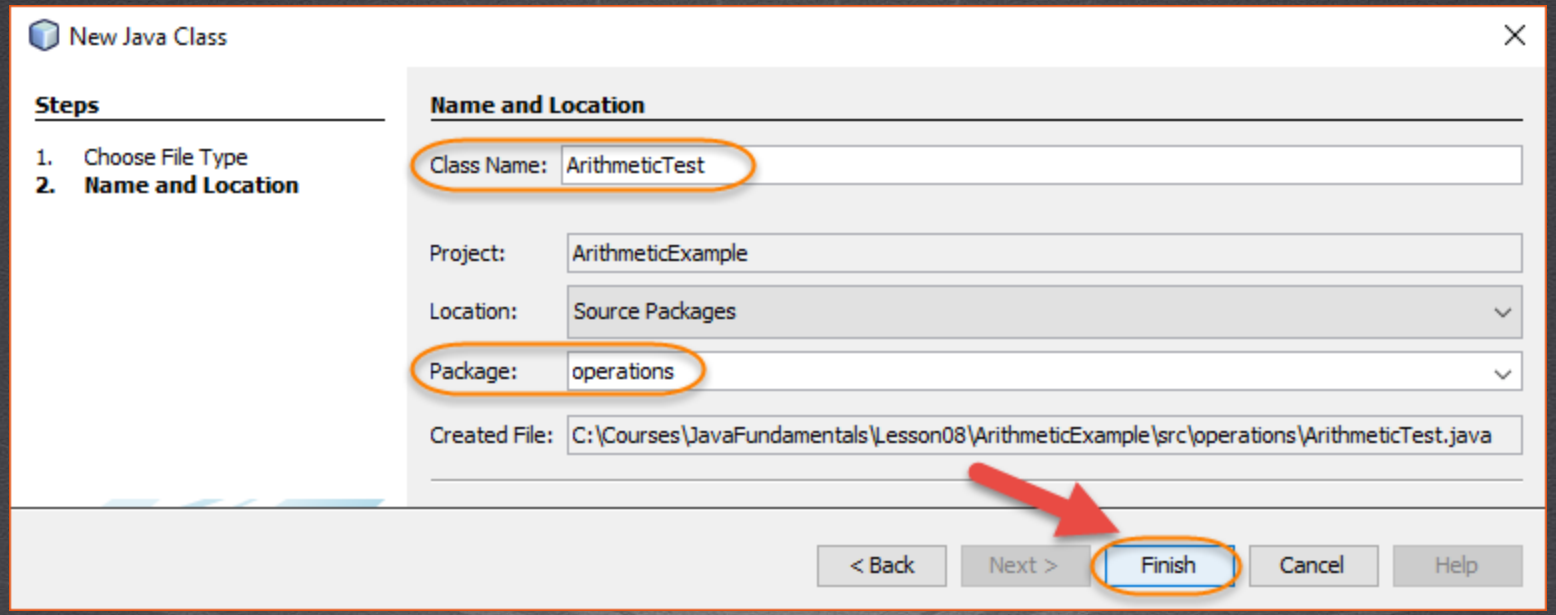
4. CREATION TEST CLASS

Create the ArithmeticTest class :



4. CREATION TEST CLASS (CONT)

Create the ArithmeticTest class :



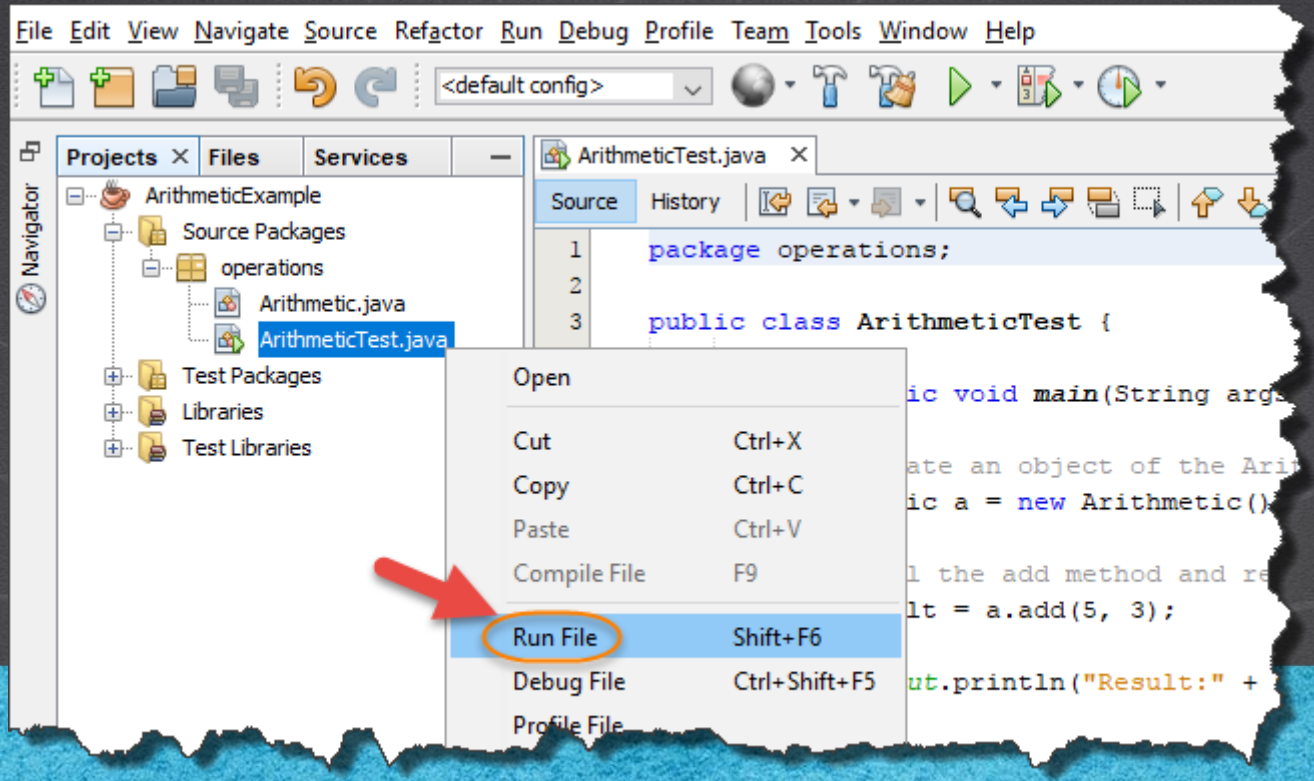
5. MODIFY THE CODE

ArithmeticTest.java:

```
package operations;

public class ArithmeticTest {

     public static void main(String args[]){

         //We create an object of the Arithmetic class
         Arithmetic a = new Arithmetic();

         //We call the add method and receive the returned value
         int result = a.add(5, 3);

         System.out.println("Result:" + result);
     }
}
```

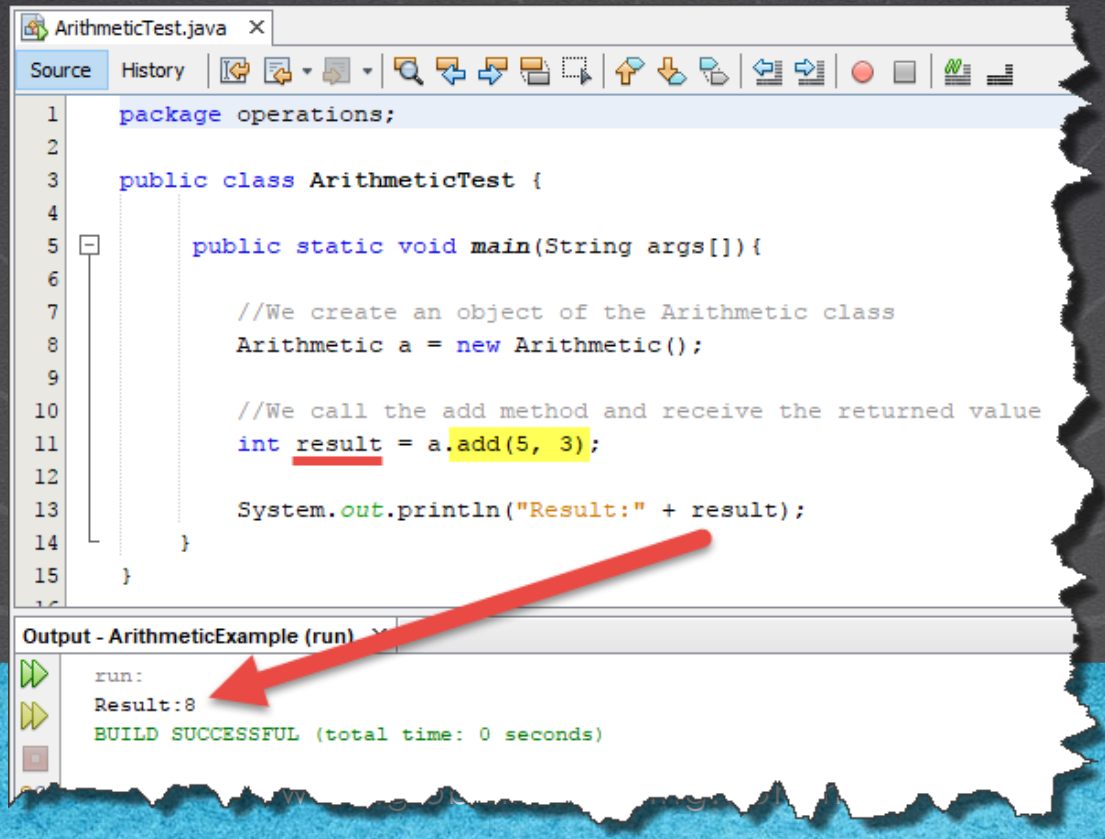
6. EXECUTE THE PROJECT

Right click over the test class and select Run:



6. EXECUTE THE PROJECT

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of methods in Java.

- As we observe a method has a name, it can receive input arguments, and it has a return value. This is a simple method but it allows us to put into practice the handling of methods, little by little we will be adding more complex methods.

ONLINE COURSE

JAVA FUNDAMENTALS

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