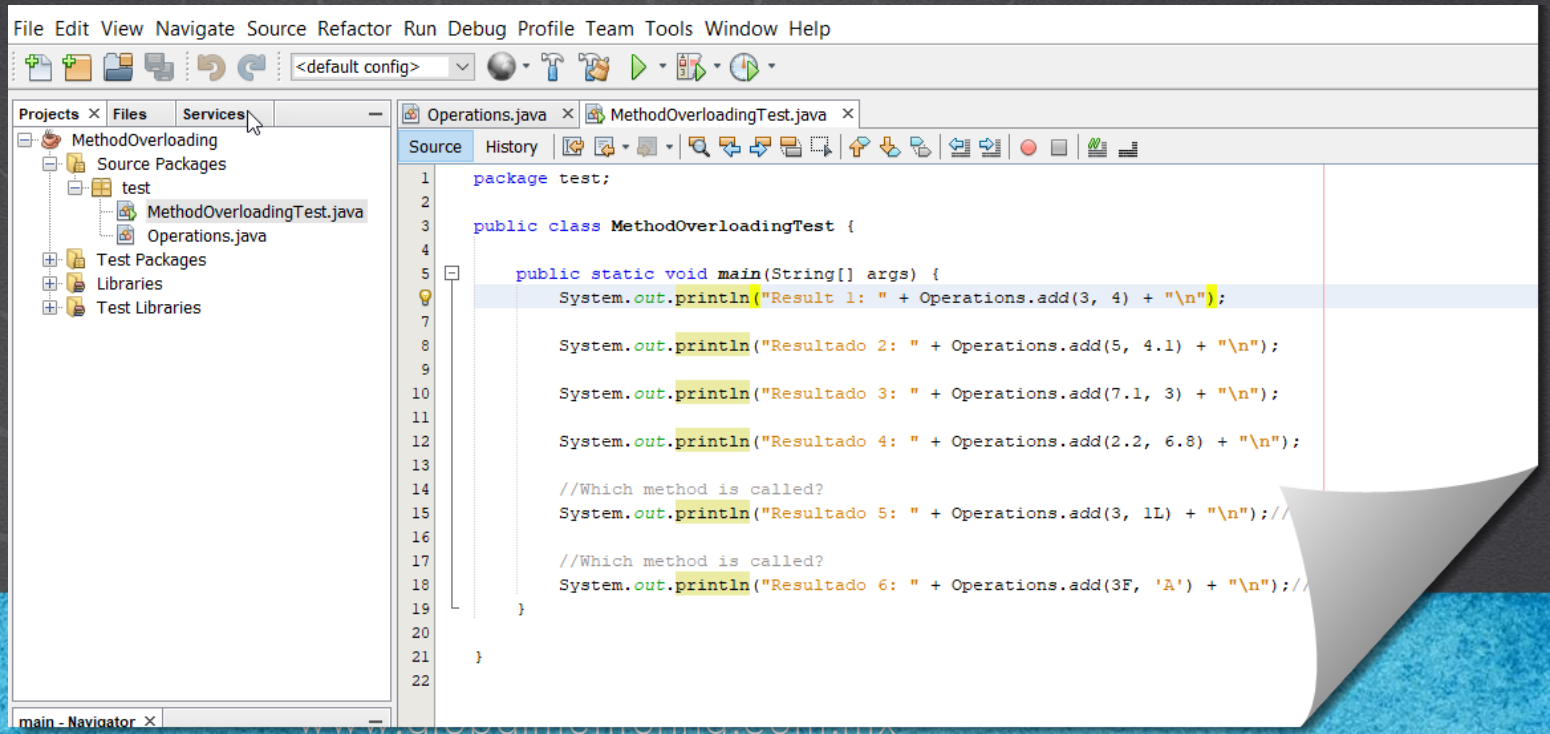
JAVA FUNDAMENTALS COURSE

EXERCISE

METHOD OVERLOADING IN JAVA

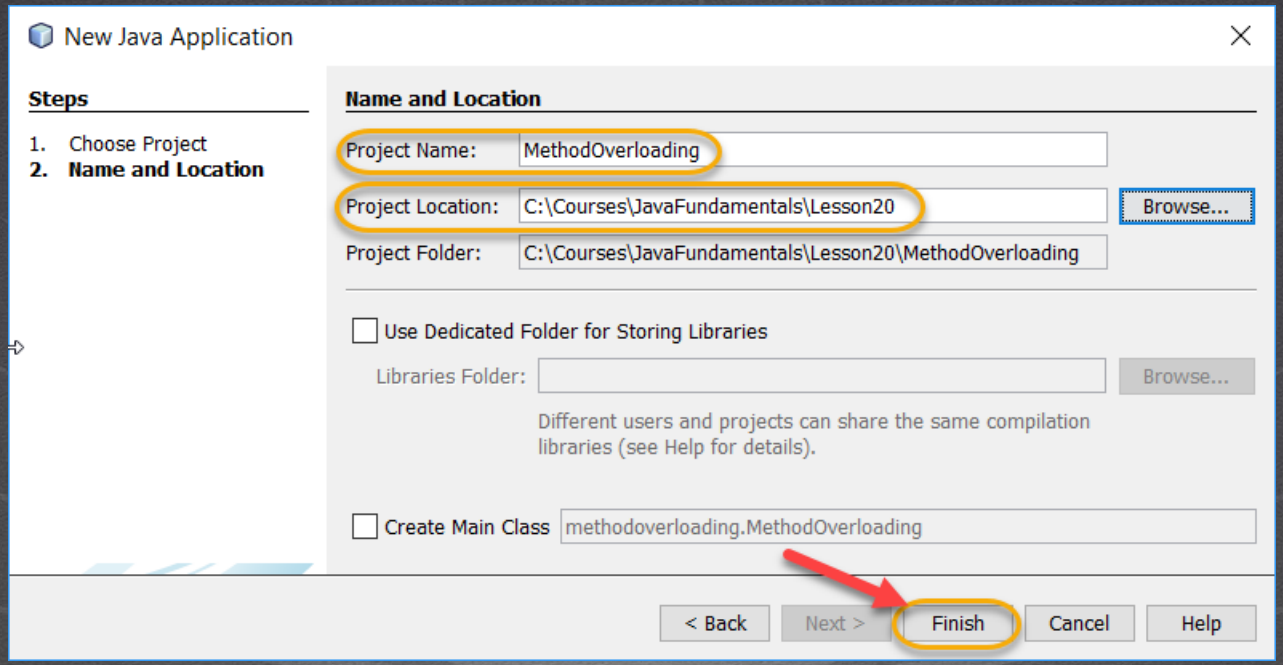
EXERCISE OBJECTIVE

With this exercise we will put into practice the concept of overload of Methods in Java. At the end we should observe the following:



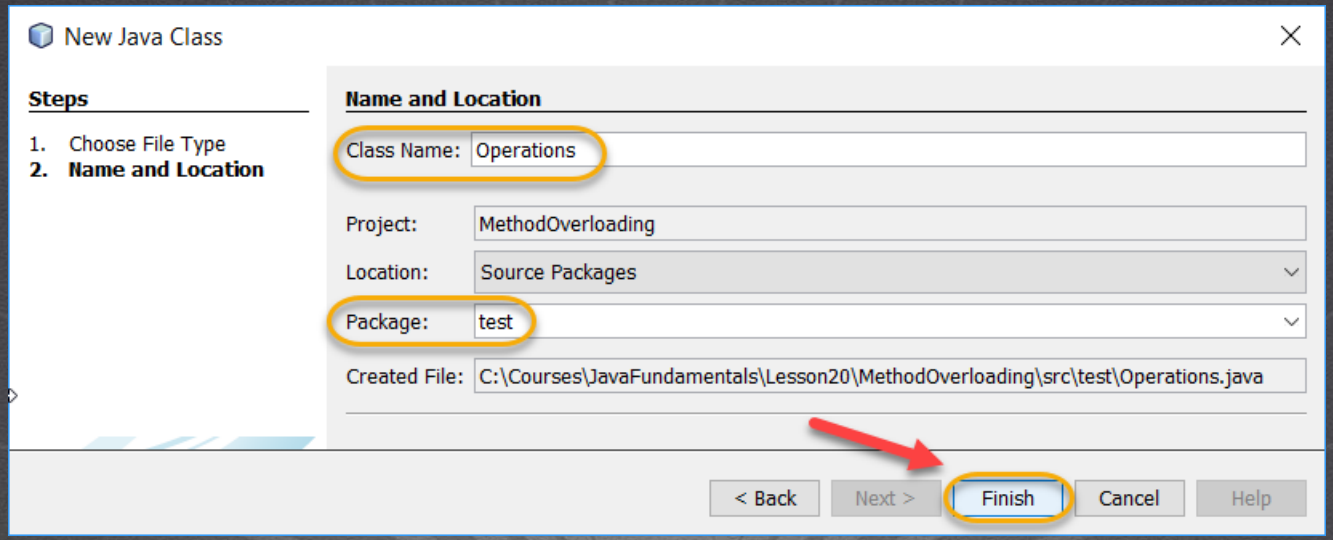
1. CREATE A PROJECT

Create a new Project:



2. CREATE A CLASS

Create a new class:



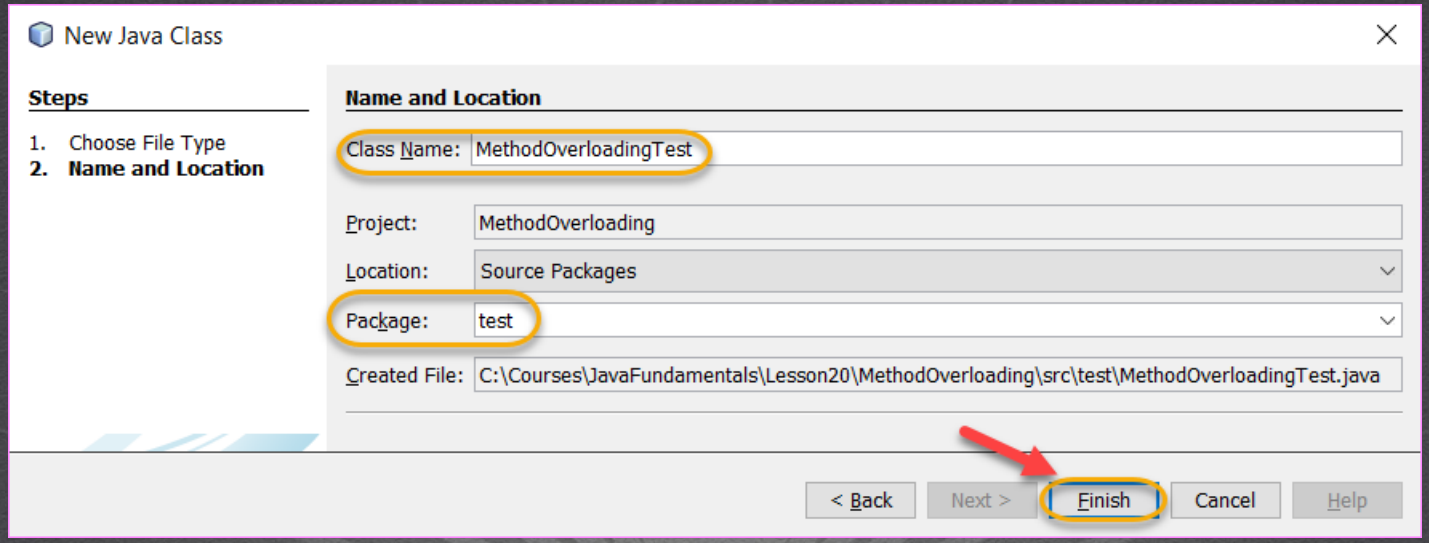
3. MODIFY THE CODE

Operations.java:

```
package test;

public class Operations {

    //add Method
    public static int add(int a, int b) {
        System.out.println("add (int, int) method");
        return a + b;
    }

    //add method overloading
    public static double add(double a, double b) {
        System.out.println("add (double, double) method");
        return a + b;
    }

    //add method overloading
    public static double add(int a, double b) {
        System.out.println("add (int, double) method:");
        return a + b;
    }

    //add method overloading
    public static double add(double a, int b) {
        System.out.println("add (double, int) method:");
        return a + b;
    }
}
```

4. CREATE A CLASS

Create a new class:



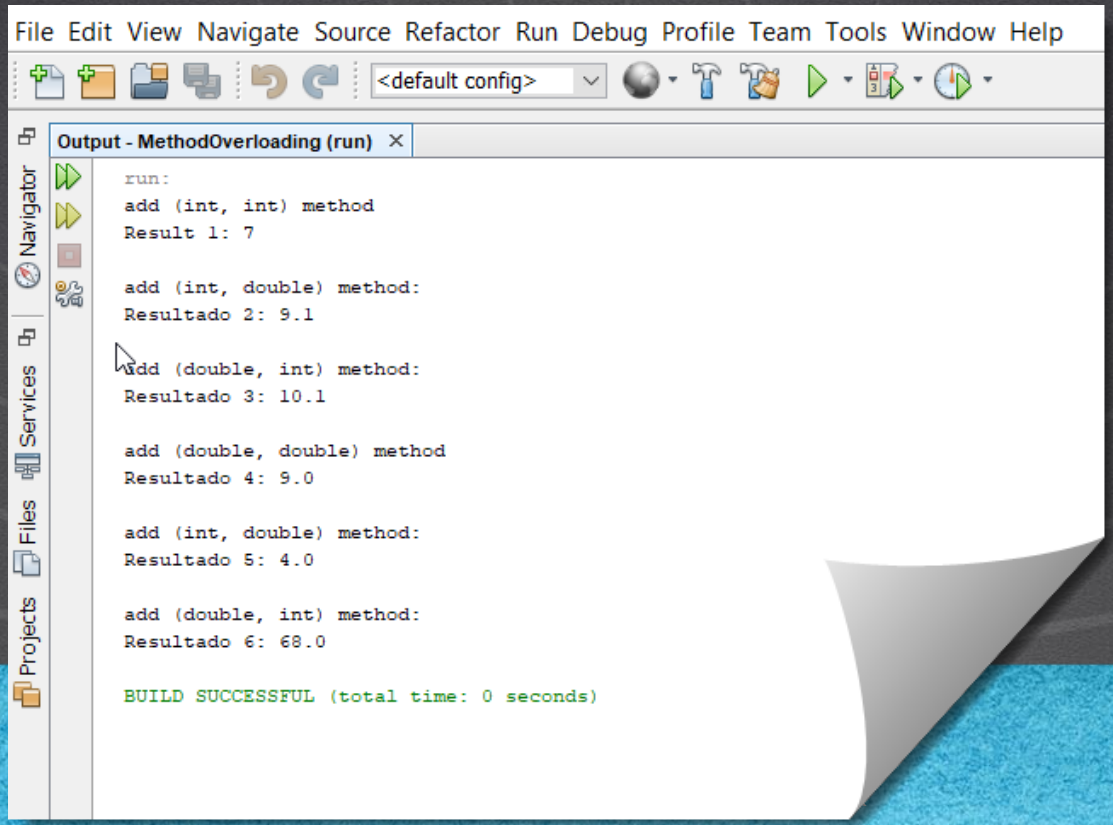
5. MODIFY THE CODE

MethodOverloadingTest.java:

```
package test;

public class MethodOverloadingTest {

    public static void main(String[] args) {
        System.out.println("\nResult 1: " + Operations.add(3, 4));

        System.out.println("\nResultado 2: " + Operations.add(5, 4.1));

        System.out.println("\nResultado 3: " + Operations.add(7.1, 3));

        System.out.println("\nResultado 4: " + Operations.add(2.2, 6.8));

        //Which method is called?
        System.out.println("\nResultado 5: " + Operations.add(3, 1L));//L or l means Long

        //Which method is called?
        System.out.println("\nResultado 6: " + Operations.add(3F, 'A'));//F or f means Float
    }

}
```

PASO 6. EXECUTE THE PROJECT

The result is as follows:



EXERCISE CONCLUSION

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

- This issue is very similar to the overload of builders, but as we have observed there are important differences and it is well worth having each of these concepts clearly.

ONLINE COURSE

JAVA FUNDAMENTALS

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