JAVA FUNDAMENTALS COURSE

EXERCISE

PASS BY VALUE



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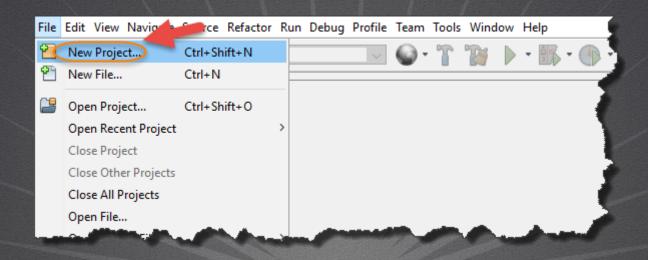
EXERCISE OBJECTIVE

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

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
                           <default config>
                                   🚯 PassByValueTest.java 🛛 🗙
  Projects X Files
                                                      package test;
                                         public class PassBvValueTest {
                                             public static void main(String[] args) {
                                                 print(x); //Prints 10
                                                 changeValue(x);
                                                 print(x);//Prints 10
                                             public static void print(int arg)
                                                 System.out.println("Received value: " + arg);
                                   15
                                   16
                                             public static void changeValue(int i) {
                                                 i = 200:
                                   19
                                   20
                                  Output - PassByValue (run) X
                                       Received value:10
```

1. CREATE A PROJECT

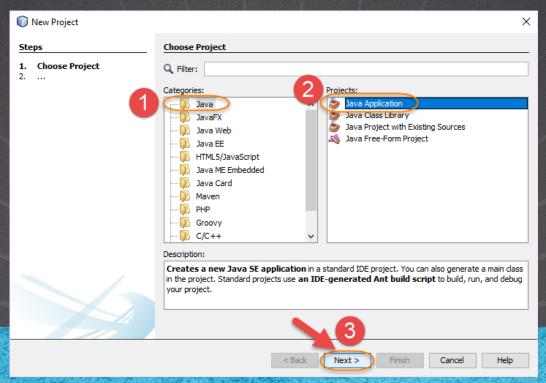
We are going to create the PassByValue project. Click on File -> New Project:



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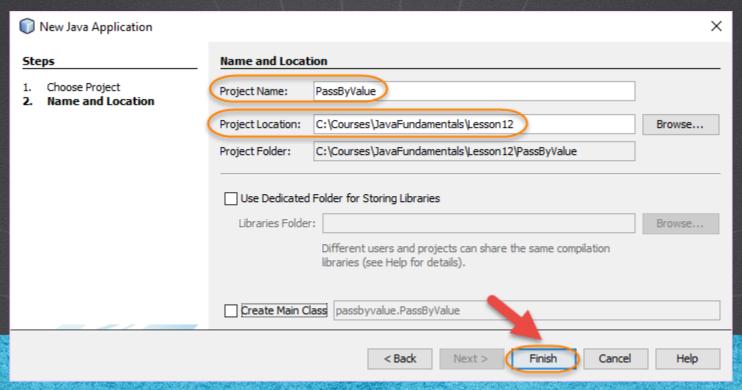
1. CREATE A PROJECT

Select Java -> Java Application and click on Next:



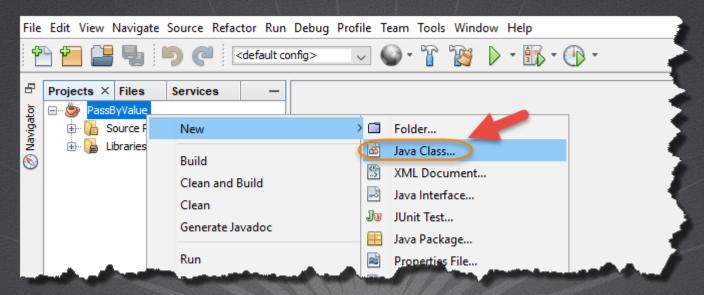
1. CREATE A PROJECT

We are going to create the PassByValue project.



2. CREATE A CLASS

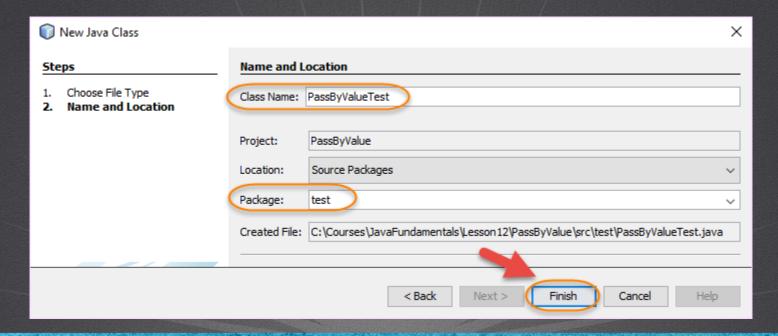
Create a new Class:



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2. CREATE A CLASS

Create a new Class:



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3. MODIFY THE CODE

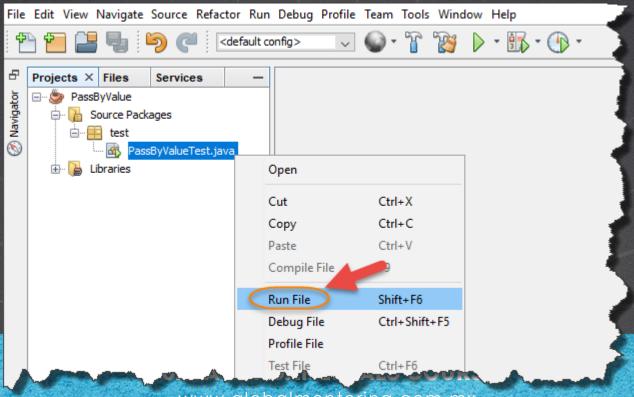
PassByValue.java:

```
package pasoporvalor;
public class PasoPorValor {
    public static void main(String[] args) {
        int x = 10:
        imprimir(x);//Imprime 10
        cambiarValor(x);
        imprimir(x);//Imprime 10
    public static void cambiarValor(int i) {
        i=200;
    public static void imprimir(int arg) {
        System.out.println("Valor recibido:" + arg);
```

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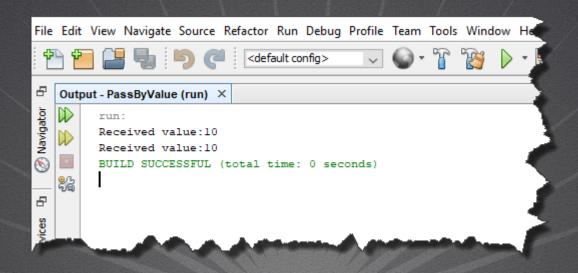
4. EXECUTE THE PROJECT

Run the project:



4. EXECUTE THE PROJECT (CONT)

The result is as follows:



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EXERCISE CONCLUSION

- With this exercise we have put into practice the issue of passing parameters by value.
- As we saw, the primitive types only pass a copy of their value, and it is not possible to modify the original value from another method, only from the same method.
- In the next lesson we will see the topic of passing parameters by reference.

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By: Eng. Ubaldo Acosta



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