JAVA PROGRAMMING COURSE

EXERCISE

AUTOBOXING / AUTOUNBOXING IN JAVA



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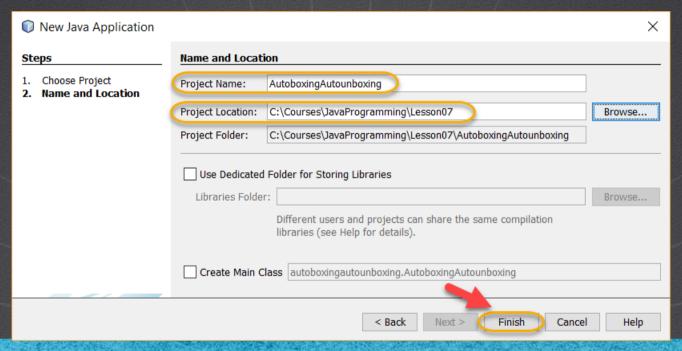
EXERCISE OBJECTIVE

Create the Autoboxing /autounboxing exercise. At the end we should observe the following:

```
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                                        AutoboxingAutounboxingTest.java ×
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  package test;
         AutoboxingAutounboxingTest.java
                                              public class AutoboxingAutounboxingTest
  ⊞ Test Packages
       Libraries
                                                   public static void main(String[] args) {
        Test Libraries
                                                       //Autoboxing (they are converted from primitive types to Object types
                                                       Integer intObi = 10;
                                                       Float floatObi = 15.2F:
                                                      Double doubleObj = 40.1;
                                                       System.out.println("Autob\xing"):
                                                       System.out.println("Integer Obj: " + intObj.intValue());
                                                       System.out.println("Float Obj:" + floatObj.floatValue());
                                                       System.out.println("Double Obj:" + doubleObj.doubleValue());
                                                       //Autounboxing (they are converted from Object types to primitive type
                                                       int entero = intObj;
                                                       float flotante = floatObj;
                                                       double doble = doubleObi;
                                                       System.out.println("\nAutounboxing");
                                                       System.out.println("Integer:" + entero);
                                                       System.out.println("Float:" + flotante);
                                                       System.out.println("Dg
```

1. CREATE A NEW PROJECT

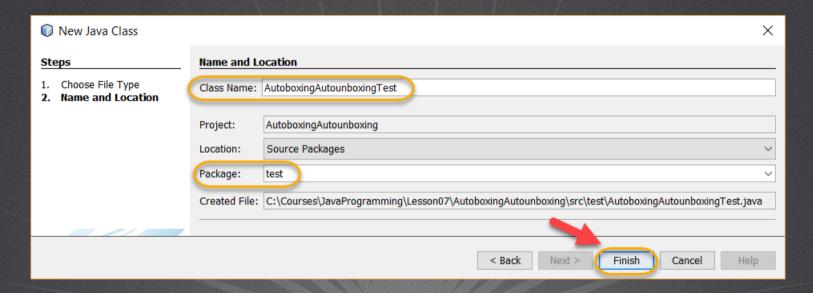
Create a new project:



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2. CREATE A NEW CLASS

Create a new Class:



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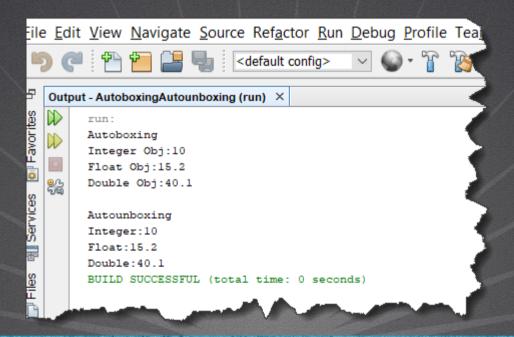
3. MODIFY THE CODE

AutoboxingAutounboxing.java:

```
package test;
public class AutoboxingAutounboxingTest {
    public static void main(String[] args) {
        //Autoboxing (they are converted from primitive types to Object types)
        Integer intObj = 10;
        Float floatObj = 15.2F;
        Double doubleObj = 40.1;
        System.out.println("Autoboxing");
        System.out.println("Integer Obj:" + intObj.intValue());
        System.out.println("Float Obj:" + floatObj.floatValue());
        System.out.println("Double Obj:" + doubleObj.doubleValue());
        //Autounboxing (they are converted from Object types to primitive types)
        int entero = intObj;
        float flotante = floatObj;
        double doble = doubleObj;
        System.out.println("\nAutounboxing");
        System.out.println("Integer:" + entero);
        System.out.println("Float:" + flotante);
        System.out.println("Double:" + doble);
```

3. EXECUTE THE PROJECT

The result is as follows:



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EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of Autoboxing / autounboxing.
- For more information consult the following link:
- https://docs.oracle.com/javase/tutorial/java/data/autoboxing.html

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