JAVA PROGRAMMING COURSE

JAVA COLLECTIONS



By expert: Ubaldo Acosta

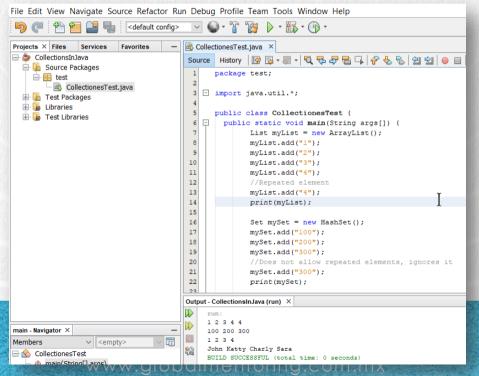




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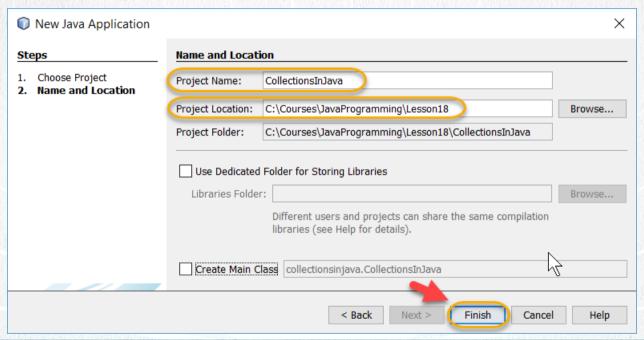
EXERCISE OBJECTIVE

Implement the concept of collections in Java. At the end we should observe the following:



1. CREATE NEW PROJECT

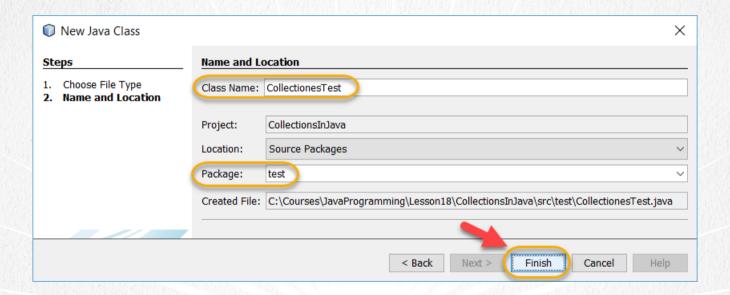
Create a new Project:



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2. CREATE A NEW CLASS

Create a new class:



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3. MODIFY THE CODE

CollectionsTest.java:

```
package test;
import java.util.*;
public class CollectionesTest {
  public static void main(String args[]) {
        List myList = new ArrayList();
        myList.add("1");
        myList.add("2");
        myList.add("3");
        myList.add("4");
        //Repeated element
        myList.add("4");
        print(myList);
        Set mySet = new HashSet();
        mySet.add("100");
        mySet.add("200");
        mySet.add("300");
        //Does not allow repeated elements, ignores it
        mySet.add("300");
        print(mySet);
```

3. MODIFY THE CODE

CollectionsTest.java:

```
Map myMap = new HashMap();
   //Key, value
   myMap.put("1", "John");
   myMap.put("2", "Katty");
   myMap.put("3", "Charly");
   myMap.put("4", "Sara");
   //All the keys are printed
   print(myMap.keySet());
    //All values are printed
   print(myMap.values());
private static void print(Collection collection) {
    for (Object element : collection) {
        System.out.print(element + " ");
    System.out.println("");
```

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3. EXECUTE THE PROJECT

The result is as follows:

```
File Edit View Navigate Source Refactor Run Debug Profile
Output - CollectionsInJava (run) X
🔊 Favorites
        run:
        100 200 300
        John Katty Charly Sara
Services
        BUILD SUCCESSFUL (total time: 0 seconds)
```

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EXERCISE CONCLUSION

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

Although we have worked with the String data type, we can work with any type of data, including those that we create, in this way the use of collections will be much more complete and thus simplify our code when using data sets.

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