JAVA PROGRAMMING COURSE

FOREACH IN JAVA



By the expert: Ubaldo Acosta





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EXERCISE OBJECTIVE

Put into practice the concept of ForEach in Java. At the end we should observe the following:

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
                          <default config>
Projects X Files Services
                         Favorites
                                       Person.java × A ForEach.java ×
 - Spreachexample
                                              History | 😭 🔁 + 📓 + | 🔾 🔁 👺 🖶 🖫 | 🖓 😓 | 🔄 😏 | 🍏 | 🔘 |
  package test:
     in test
         ForEach.iava
                                              public class ForEach {
         Person.iava
  public static void main(String[] args) {
                                                      //Create an array of Person type
                                                      Person[] people = {new Person("John"), new Person("Katv")};
                                                      //Iterate each elemento of the Person array
                                        11
                                                      for (Person p : people) {
                                                          //We access the attributes and / or methods of the object
                                                          int personId = p.getPersonId();
                                                          String name = p.getName();
                                                          System.out.println("Person id:" + personId + ", name: " + name);
                                        17
                                        18
                                        19
                                                      System.out.println("");
                                                      //Array of integers
                                                      int[] ages = {15, 20, 41, 50};
                                                      //Iterate the array
                                                      for (int age : ages)
                                       Output - ForEachExample (run) X
                                            Person id:1, name: John
 main - Navigator ×
                                            Person id:2, name: Katy
```

1. CREATE A NEW PROJECT

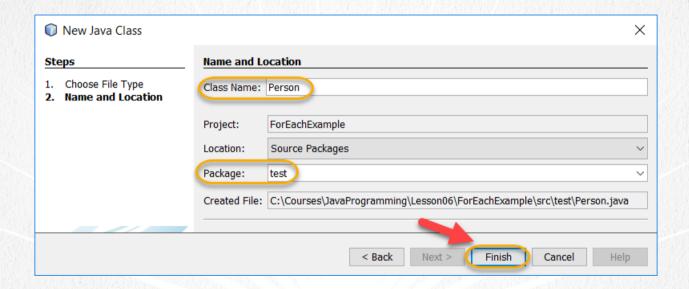
Create a new Project:

New Java Application			×
Steps	Name and Locat	ion	
Choose Project Name and Location	Project Name:	ForEachExample	
	Project Location:	C:\Courses\JavaProgramming\Lesson06	Browse
	Project Folder:	${\tt C:\Courses\JavaProgramming\Lesson06\ForEachExample}$	
→	Use Dedicated		Browse
	Create Main C	Different users and projects can share the same compilation libraries (see Help for details). Class foreachexample.ForEachExample	
		< Back Next > Finish Cance	el Help

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2. CREATE A NEW CLASS

Create a new class:



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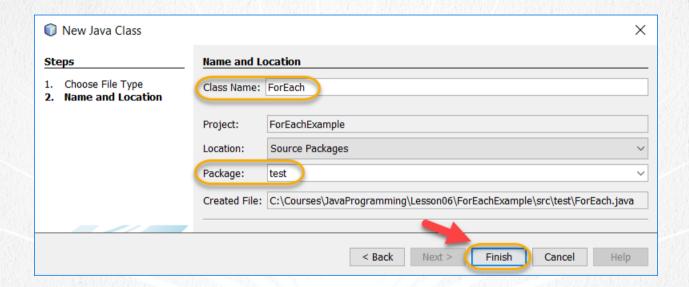
3. MODIFY THE CODE

Person.java:

```
package test;
public class Person {
    private final int personId;
    private String name;
    private static int peopleCounter;
    Person(String name){
        personId = ++peopleCounter;
        this.name = name;
     public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
    public int getPersonId(){
        return this.personId;
```

4. CREATE A NEW CLASS

Create a new class:



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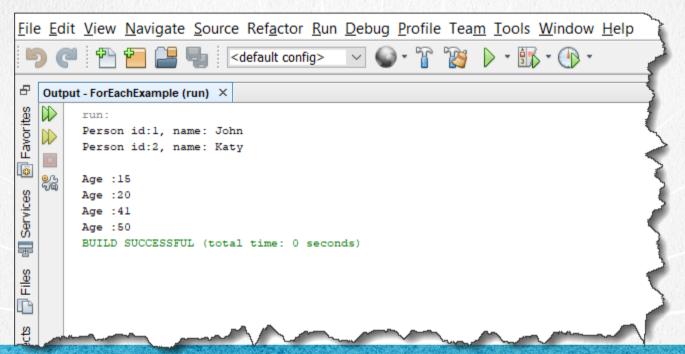
5. MODIFY THE CODE

ForEach.java:

```
package test;
public class ForEach {
    public static void main(String[] args) {
        //Create an array of Person type
        Person[] people = {new Person("John"), new Person("Katy")};
        //Iterate each elemento of the Person array
        for (Person p : people) {
            //We access the attributes and / or methods of the object
            int personId = p.getPersonId();
            String name = p.getName();
            System.out.println("Person id:" + personId + ", name: " + name);
        System.out.println("");
        //Array of integers
        int[] ages = {15, 20, 41, 50};
        //Iterate the array
        for (int age : ages) {
            System.out.println("Age :" + age);
```

6. EXECUTION OF THE PROJECT

The result is as follows:



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EXERCISE CONCLUSION

With this exercise we have put into practice the for each loop.

We have also commented that it is not always convenient to use this loop, but if we want to go through the entire array or data collection then it is feasible to use and take advantage of the simplified syntax of the for each loop.



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