

JAVA FUNDAMENTALS COURSE

EXERCISE

DO WHILE LOOP

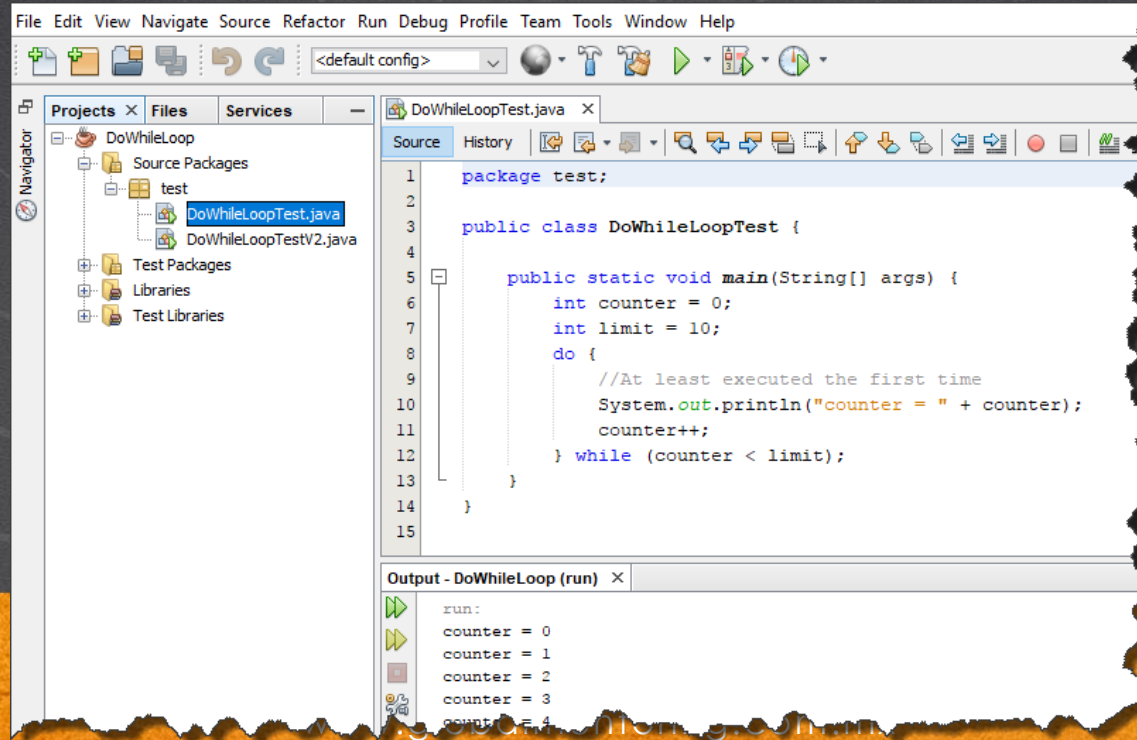


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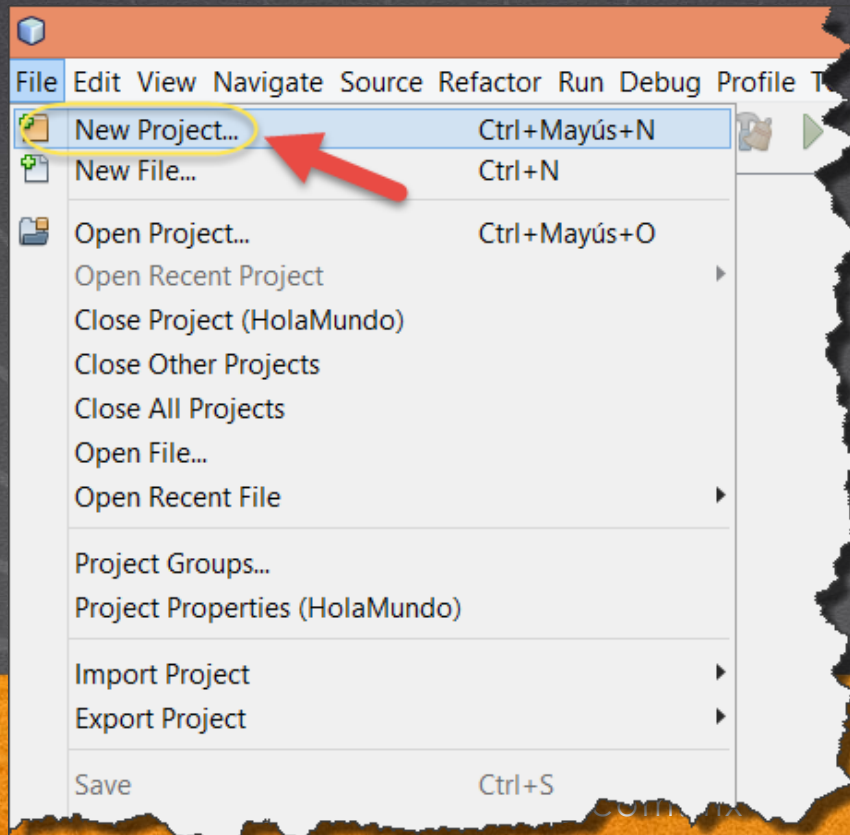
EXERCISE OBJECTIVE

Create an exercise of the do while loop. At the end we should observe the following:



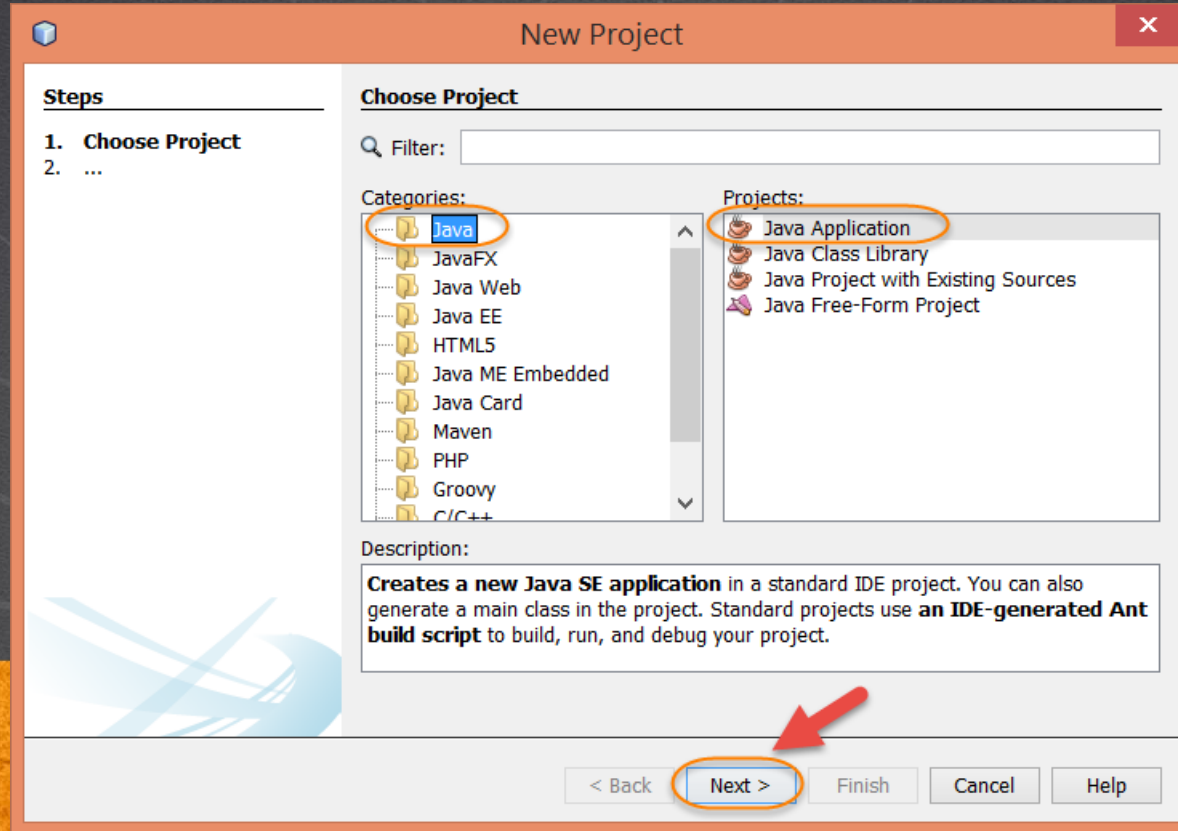
1. CREATE A NEW PROJECT

We are going to create the DoWhileLoop project:



1. CREATE A NEW PROJECT (CONT)

Select Java -> Java Application:



1. CREATE A NEW PROJECT (CONT)

We are going to create the DoWhileLoop project:

New Java Application

Steps

1. Choose Project
2. **Name and Location**

Name and Location

Project Name:

Project Location:

Project Folder:

☐ Use Dedicated Folder for Storing Libraries

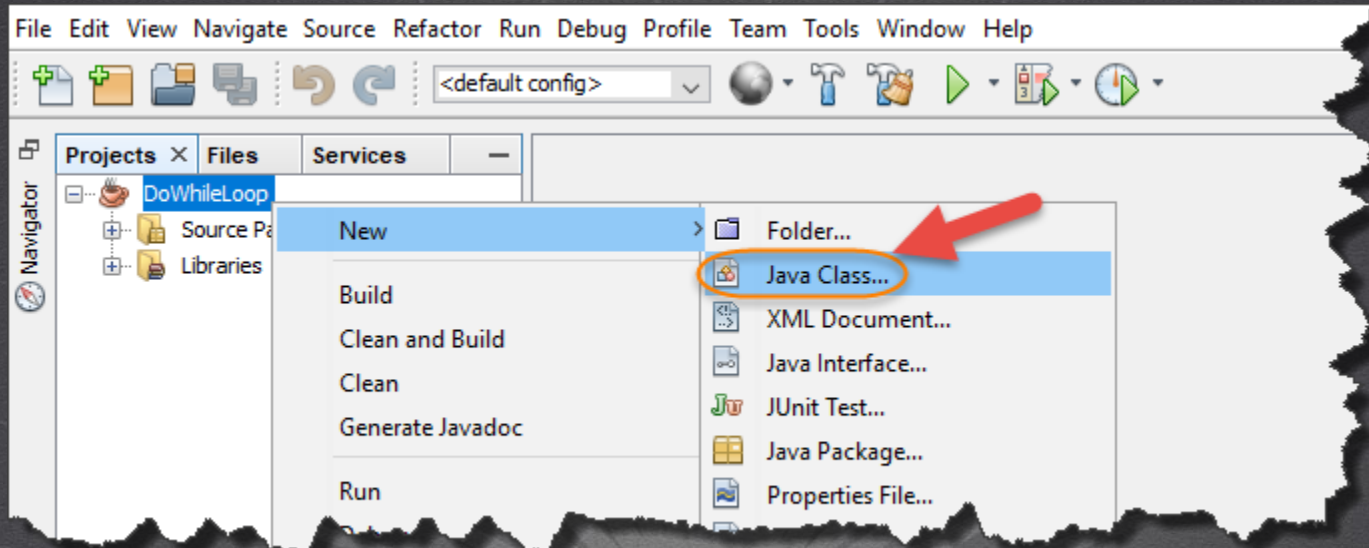
Libraries Folder:

Different users and projects can share the same compilation libraries (see Help for details).

☐ Create Main Class

2. CREATE A NEW CLASS

We'll create the DoWhileLoopTest.java class:



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2. CREATE A NEW CLASS

We'll create the WhileLoopTest.java class:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

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3. MODIFY THE CODE

DoWhileLoopTest.java:

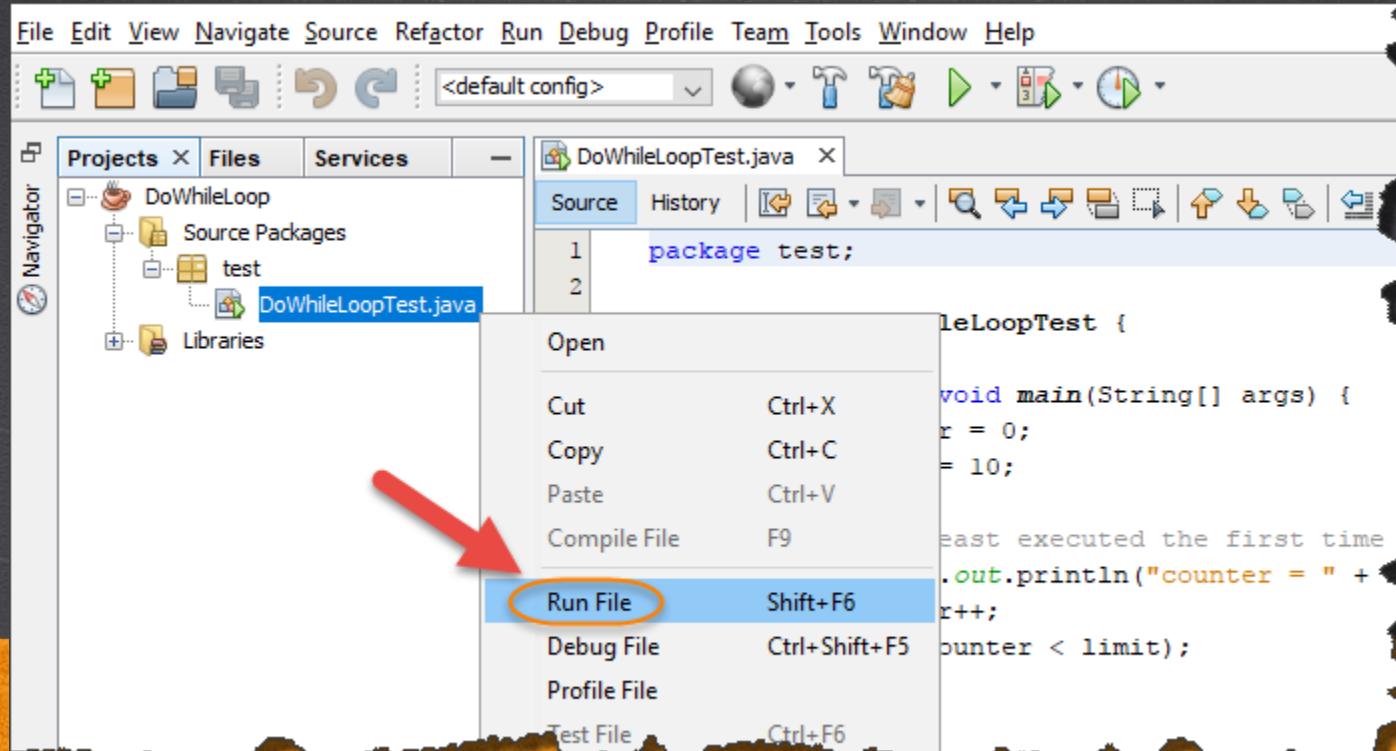
```
package test;

public class DoWhileLoopTest {

    public static void main(String[] args) {
        int counter = 0;
        int limit = 10;
        do {
            //At least executed the first time
            System.out.println("counter = " + counter);
            counter++;
        } while (counter < limit);
    }
}
```

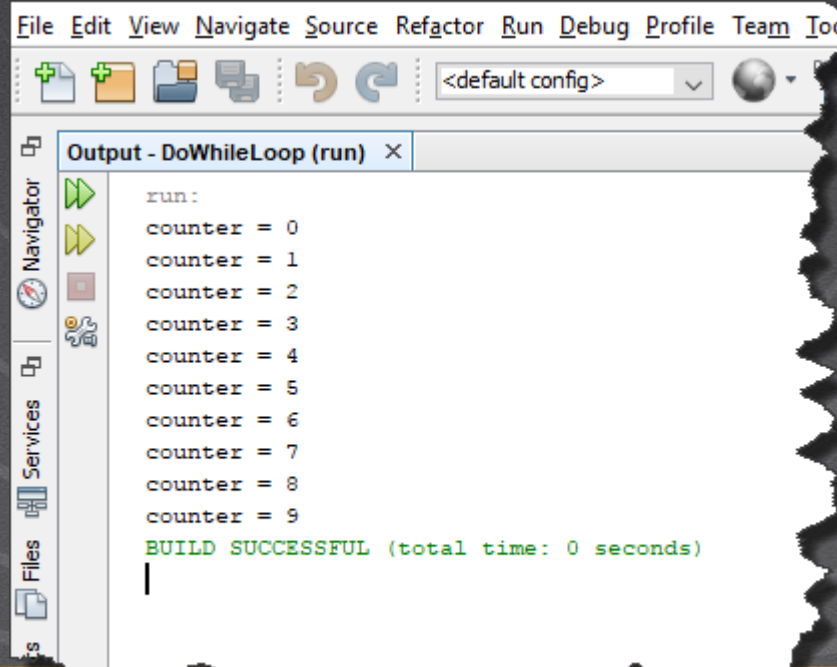

4. EXECUTE THE PROJECT

We execute our project. We give right click -> Run:



4. EXECUTE THE PROJECT (CONT)

The result is as follows:

A screenshot of an IDE's output window titled "Output - DoWhileLoop (run)". The window shows the execution of a program. The output text is as follows:

```
run:  
counter = 0  
counter = 1  
counter = 2  
counter = 3  
counter = 4  
counter = 5  
counter = 6  
counter = 7  
counter = 8  
counter = 9  
BUILD SUCCESSFUL (total time: 0 seconds)
```

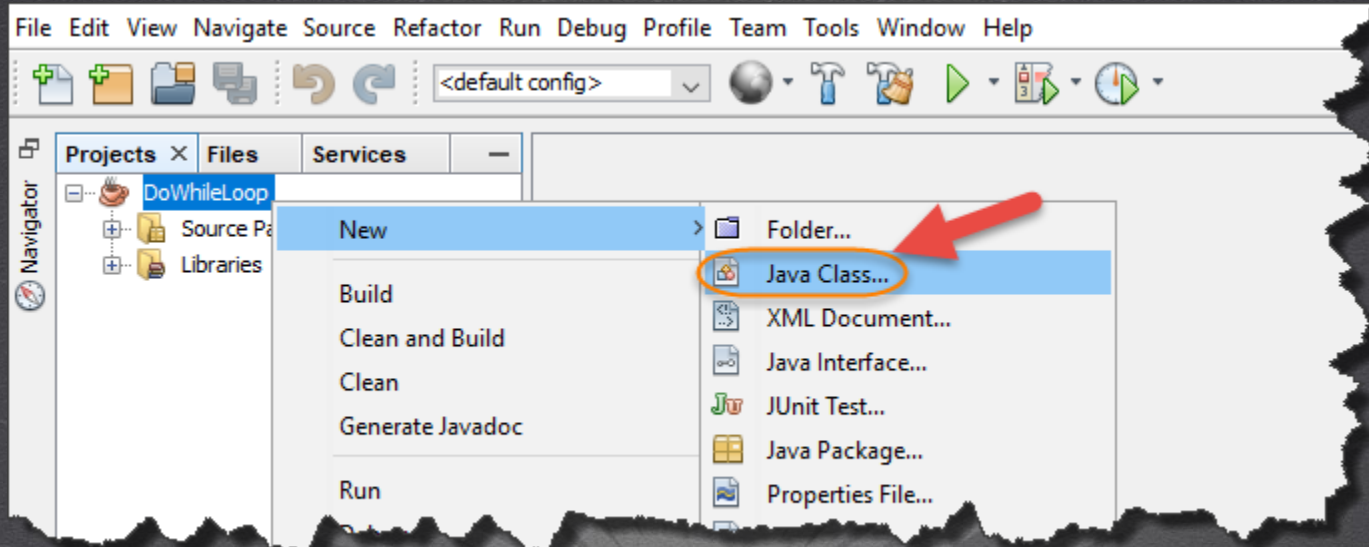
The IDE interface includes a menu bar with options like File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, and Tools. Below the menu bar is a toolbar with icons for file operations and a dropdown menu set to "<default config>". On the left side of the IDE, there is a sidebar with icons for Navigator, Services, and Files.

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5. DO WHILE LOOP VERSION 2

We now create a second version of the exercise. Add a new class:



5. DO WHILE LOOP VERSION 2

The class name is: DoWhileLoopTestV2.java:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name: WhileLoopTestV2

Project: WhileLoop

Location: Source Packages

Package: test

Created File: C:\Courses\JavaFundamentals\Lesson05\WhileLoop\src\test\WhileLoopTestV2.java

< Back Next > **Finish** Cancel Help

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PASO 6. MODIFICAMOS EL CÓDIGO

WhileLoopTestV2.java:

```
package test;

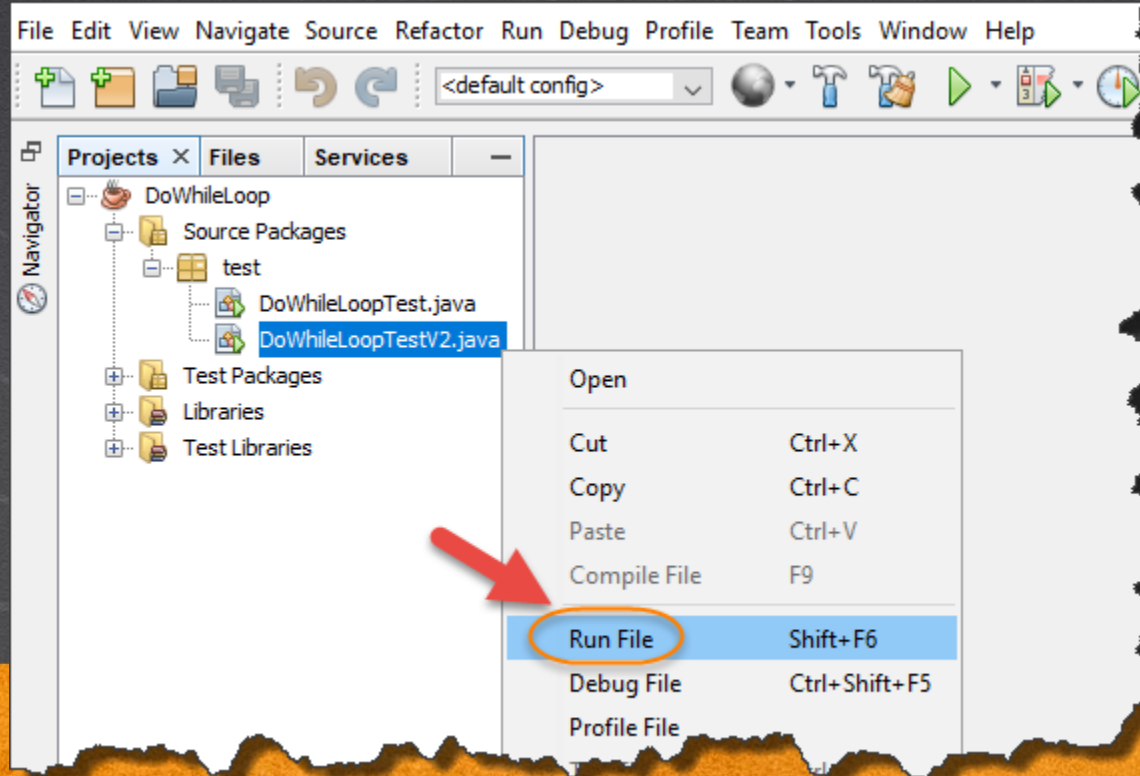
import java.util.Scanner;

public class DoWhileLoopTestV2 {

    public static void main(String[] args) {
        System.out.println("Enter the number of elements to iterate:");
        int maxElements;
        Scanner scanner = new Scanner(System.in); //Creation of the Scanner object to read data
        maxElements = scanner.nextInt(); //We read the value provided by the user
        int counter = 0;
        do {
            //At least executed the first time
            System.out.println("counter = " + counter);
            counter++;
        } while (counter < maxElements);
    }
}
```

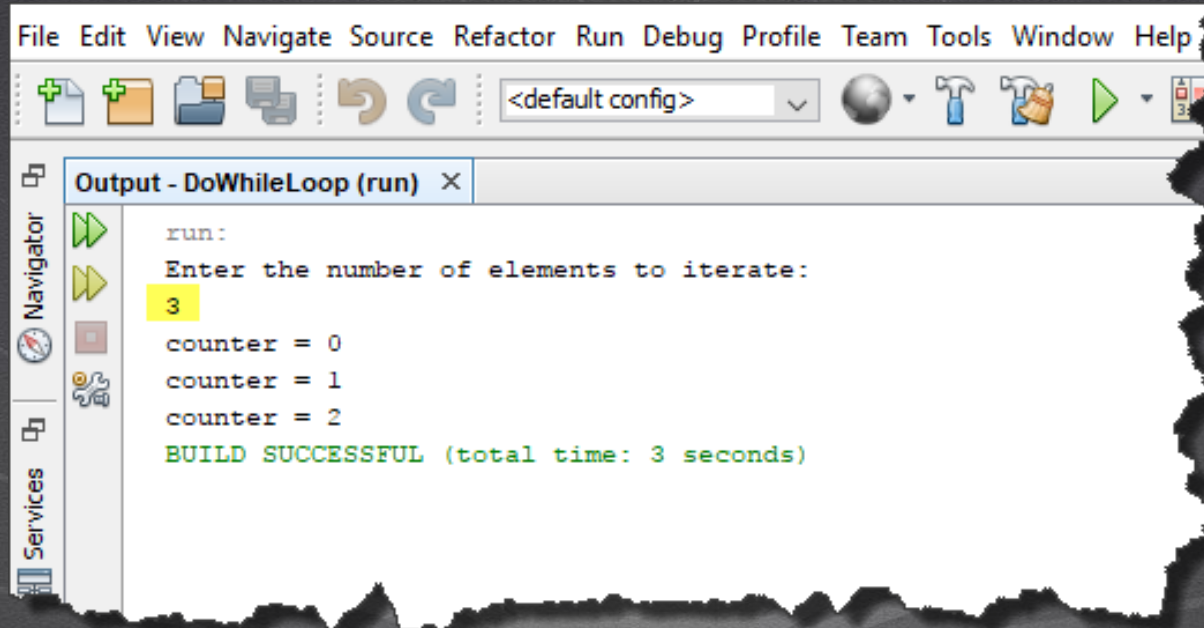
7. EXECUTE THE PROJECT

We execute our project. We give right click -> Run:



7. EXECUTE THE PROJECT (CONT)

The result is as follows:



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Output - DoWhileLoop (run) x
run:
Enter the number of elements to iterate:
3
counter = 0
counter = 1
counter = 2
BUILD SUCCESSFUL (total time: 3 seconds)
```

IN CASE OF PROBLEMS

- Remember to code every line of code, DO NOT copy and paste from the eBooks.
- Only in case of problems you can always use the documentation (PDF) or the resolved projects (.zip file) that we give you in each exercise to check any problems in your code.



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EXERCISE CONCLUSION

- With this exercise we have implemented the handling of the do while loop.
- The do while loop, unlike the while loop, we can repeat instructions, at least once, even if the condition to be checked is false, this is because the expression is evaluated after the body of the loop is executed.



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