

JAVA PROGRAMMING COURSE

EXERCISE

DATA INPUT WITH THE SCANNER CLASS IN JAVA

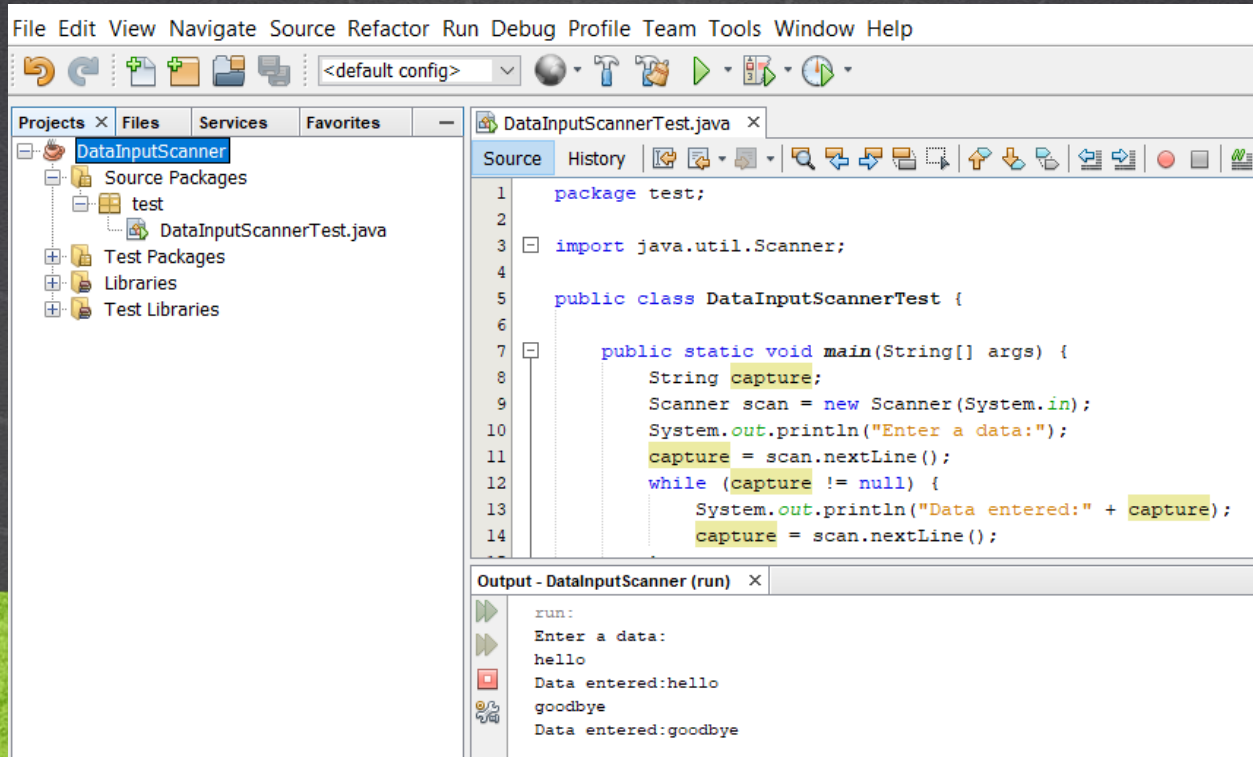


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EXERCISE OBJECTIVE

Implement the concept of data entry in Java using the Scanner class. At the end we should observe the following:



The screenshot displays an IDE with the following components:

- Project Explorer:** Shows a project named 'DataInputScanner' containing a 'test' package with 'DataInputScannerTest.java'.
- Source Editor:** Displays the code for 'DataInputScannerTest.java':

```
1 package test;  
2  
3 import java.util.Scanner;  
4  
5 public class DataInputScannerTest {  
6  
7     public static void main(String[] args) {  
8         String capture;  
9         Scanner scan = new Scanner(System.in);  
10        System.out.println("Enter a data:");  
11        capture = scan.nextLine();  
12        while (capture != null) {  
13            System.out.println("Data entered:" + capture);  
14            capture = scan.nextLine();  
15        }  
16    }  
17 }
```
- Output Console:** Shows the execution results:

```
run:  
Enter a data:  
hello  
Data entered:hello  
goodbye  
Data entered:goodbye
```

1. CREATE A NEW PROJECT

Create a new 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

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2. CREATE A NEW CLASS

Create a new 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

DataInputScannerTest.java:

```
package test;

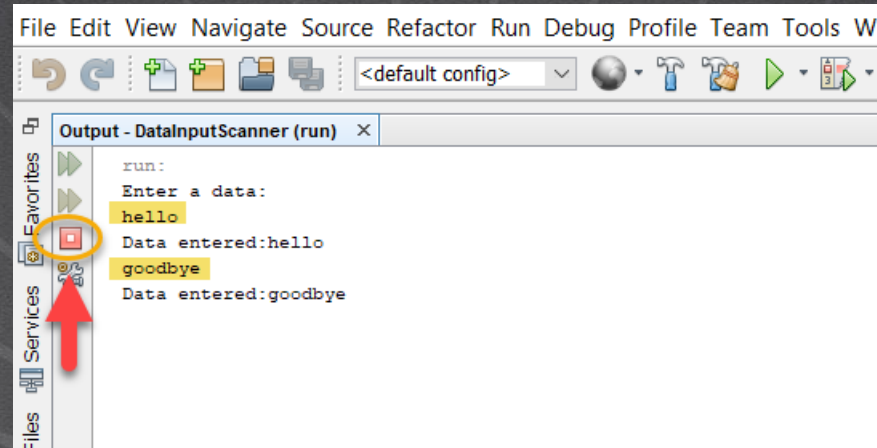
import java.util.Scanner;

public class DataInputScannerTest {

    public static void main(String[] args) {
        String capture;
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a data:");
        capture = scan.nextLine();
        while (capture != null) {
            System.out.println("Data entered:" + capture);
            capture = scan.nextLine();
        }
    }
}
```

4. EXECUTE THE PROJECT

The result is as follows. The program will read the data that we introduce until we stop the Java process (red button).



EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of data entry in Java, but now using the Scanner class, which simplifies the process of data entry in Java, however it is important to know both options for when we find code with both APIs.



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