

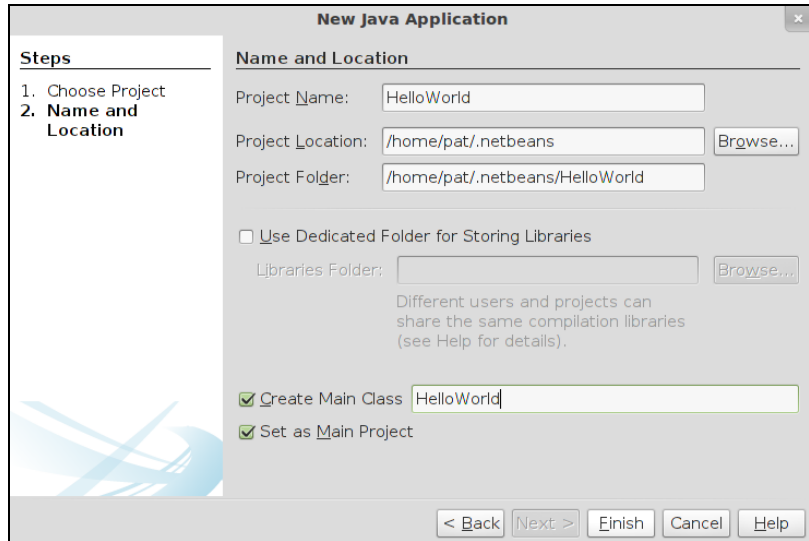
Hello World

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Purpose: Create a first program in Java and a first project in NetBeans.

I. Creating a new NetBeans project. Steps to create the project:

- A. Run Netbeans.
- B. Click on the *File* menu, then select *New Project*.
- C. A new window will pop up. On the first page select "Java" from *categories*, and "Java Application" from *projects*. Then click *next*.
- D. Set *Project Name* to HelloWorld. Select a *Project Location* and *Project Folder*. These choices determine a directory where your work will be saved.
- E. Make sure *Create Main Class* is checked. Enter "HelloWorld" into the adjacent textbox. (This differs from the default.)
- F. The window should look similar to the one on this page. Click *finish*.



II. Editing the HelloWorld class.

- A. A window should be opened labeled *HelloWorld.java*.
- B. Enter the following code in the *main* function:

```
System.out.println("Hello World!");
```

Your screen should look as shown at right.

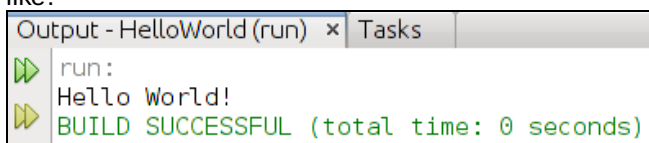
- C. Save the file using the menu: "File > Save".
- D. You should have noticed as you typed the period after *system*, NetBeans "helps" you. If you didn't notice this, play around with retyping it.

```
public class HelloWorld {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        System.out.println("Hello World!");
    }
}
```

III. Running the program. The following two methods both run the program:

- A. To run the program from within NetBeans do the following. Select "Run > Run Main Project" from the menu.

A sub-window should pop up and display the output of your program. It should look something like:

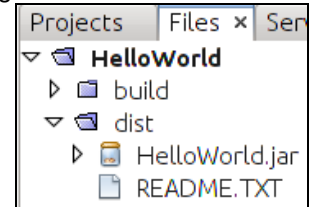


- B. To run the program from the command line (on a terminal) perform the following steps:
 1. Select "Run > Clean and Build Main Project" from the main menu bar.
 2. This has the effect of creating a ".jar" file. You can see the file by selecting the "Files" tab,

then expanding down to the "HelloWorld/dist/" folder. See below, right.

3. In a terminal (or command prompt) outside of NetBeans, change directories to "HelloWorld/dist/" part of your project. You can run the program with the following command:

```
java -jar HelloWorld.jar
```



IV. Discussion of Program. Source code with comments stripped out:

```
public class HelloWorld {  
  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```

Comments:

- o There is one method (or function) in this program, named **main**. The method only has one statement, which prints our message.
- o Statements end with semicolons.
- o Java programs begin by executing a **main** method.
- o The method **main** is part of the class **HelloWorld**. A *class* is a collection of functions and java objects, which haven't been introduced yet.
- o **System** is another class. It contains an object called **out**, which controls the output of the program. The object **out** is a member of a class with a method called **println**.

Links:

Here are some links to some other "Hello World" tutorials:

- The [NetBeans IDE Java Quick Start Tutorial](#)
- Oracle has several hello world tutorials, including [one using NetBeans](#), one for [using windows without NetBeans](#), and one for using [the linux command line](#).