Get familiar with NetBeans Java IDE

In the following article, we will introduce you the most basic features of NetBeans IDE through a small test, which is to create the 'Hello World' Java application. And when finished, you will know the general knowledge and process when programming applications in IDE ...

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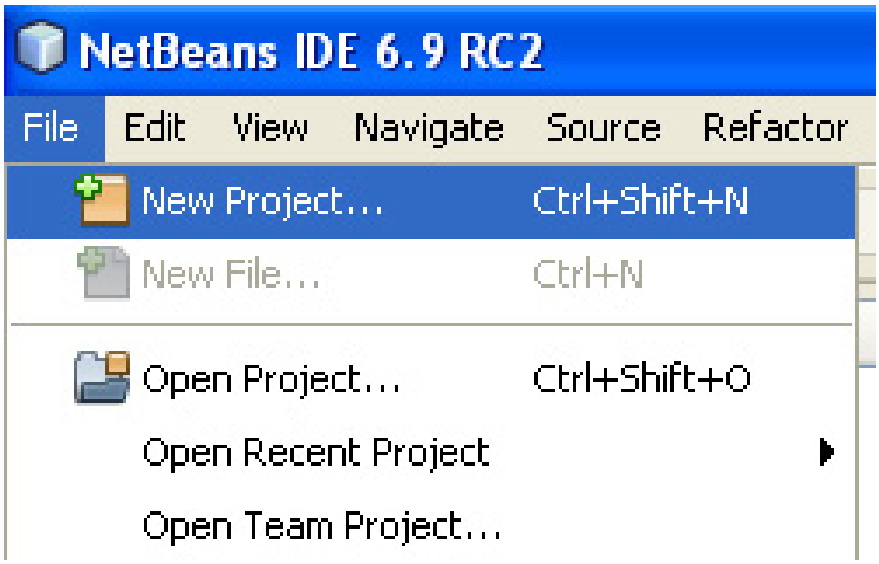
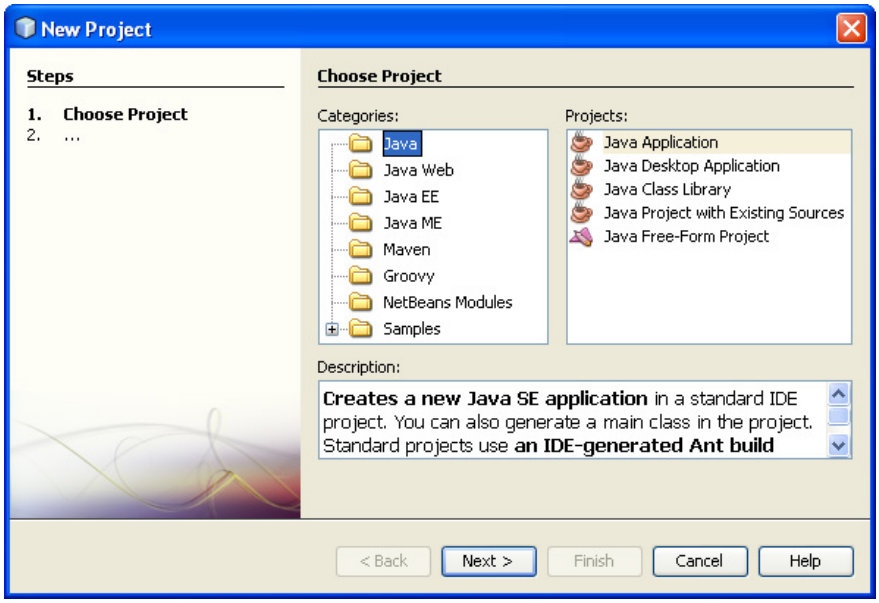
1. Initialize Project:

First, start **NetBeans IDE** . From within the IDE, select **File> New Project** (**Ctrl** + **Shift** + **N** shortcut) as shown below:

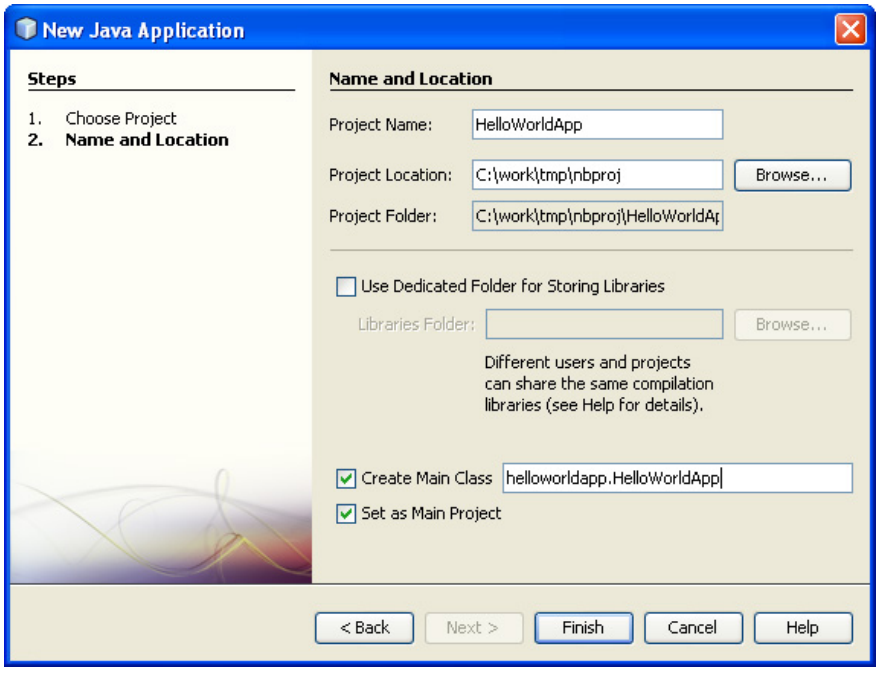


The **New Project** window displays, select **Java> Java Application** . Then click **Next** :



In the Name and Location section, enter the following information:

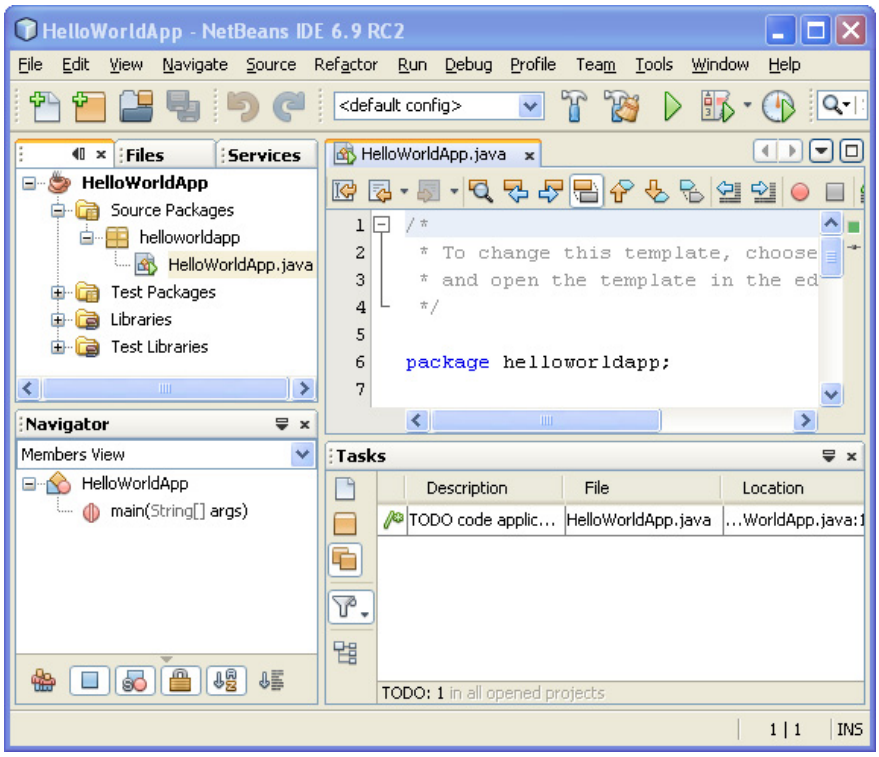
1. Project Name: **HelloWorldApp**
2. Do not select **Use Dedicated Folder for Storing Libraries**
3. Create Main Class: **helloworldapp.HelloWorldApp**
4. Check the **Set as Main Project box**



Click Finish and the Project will be opened in the IDE, we will see the following components:
Projects window: with the **tree view** mode of the project components, such as: source files, libraries .

1. The **Source Editor** window with the **HelloWorldApp** file is open.
2. **Navigator** window: is used to move between elements within the open class.

3. The **Tasks** window: lists all the errors that occurred during compile and related components, marked with **XXX** and **TODO** .



2. Merge Code into Generated Source File:

At the top, we have selected the **Create Main Class** checkbox when creating **Project** , so the **IDE** will create the main class. You can assign " **Hello World!** " To the main code section by replacing the line:

// TODO code application logic here

by code:

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

Select **File> Save** to save the changes. Our result file in this step will look like this:

/ *
* To change this template, choose Tools | Templates
* và m? t?p tin m?u trong ph?n m?m.
* /

package helloworldapp;

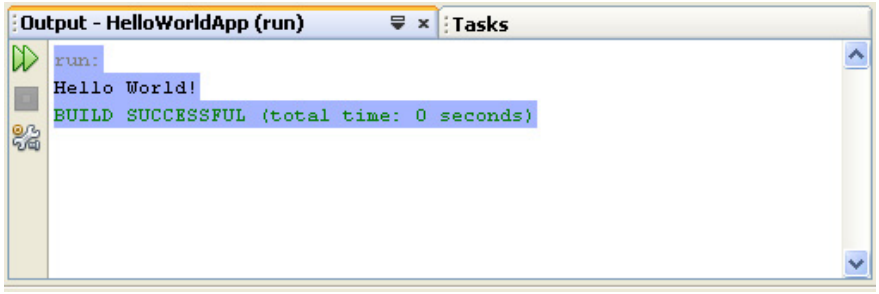
/ **

```
*
* @author
* /
public class HelloWorldApp {

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

}
```

3. Compile and run the program:

Because the IDE's Compile feature is in the Save section, so we will not have to compile the previous project to be able to run inside the IDE. When saving a Java source file, the IDE automatically compiles it. Note that the Save Compile function can be turned off in the **Project Properties** by right-clicking on the project and selecting **Properties** . In this **Properties** window, select the **Compiling** tab, with the **Compile on Save** checkbox at the top right. This **Project Properties** can also adjust settings for: project libraries, packaging, building, running .

To run the program, select **Run> Run Main Project** or press F6:



When the system displays the message as above it means that the compilation process was successful

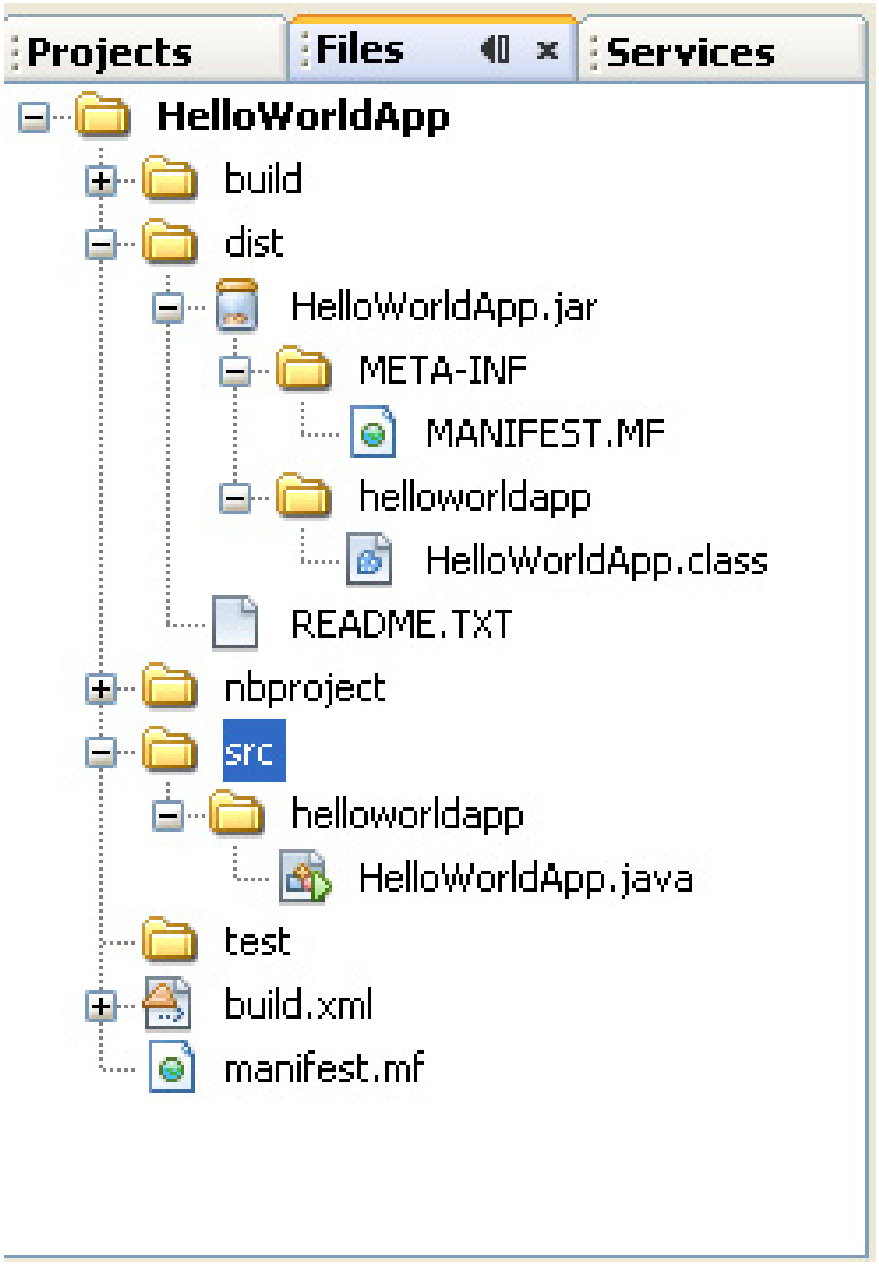
If an error occurs, they will be marked with a red arrow symbol on the left and right-aligned at the **Source Editor** section **.** The markings on the left will correspond to the lines of the code containing the error, and the right error symbol will indicate all the files with errors, including unseen errors. Click the error icon to move to the line containing the code.

4. Building and deploying applications:

After writing the source code, checking it, we can use the **Clean and Build feature** to build the program. Using this **Clean and Build** command, the IDE will run the necessary code to perform the following tasks:

1. Delete all files that have been compiled and previously built.
2. Recompile the application and create a * .JAR file containing the compiled files.

To build the program, select **Run> Clean and Build Main Project** or press the shortcut **Shift + F11** . We can check the built files by opening the Files window and expanding the **HelloWorldApp** section (the name of the project). File bytecode **HelloWorldApp.class** after compilation is inside the **build / classes / helloworldapp section** . Package the *** .JAR** file containing the **HelloWorldApp.class** file inside the dist.



Very simple and easy, wish you success!