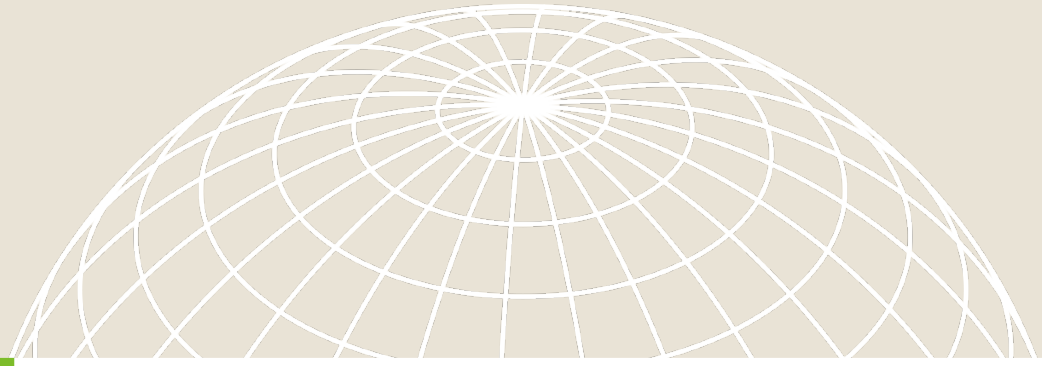

How To Java Tutorials

Lesson 3 Hello World Program

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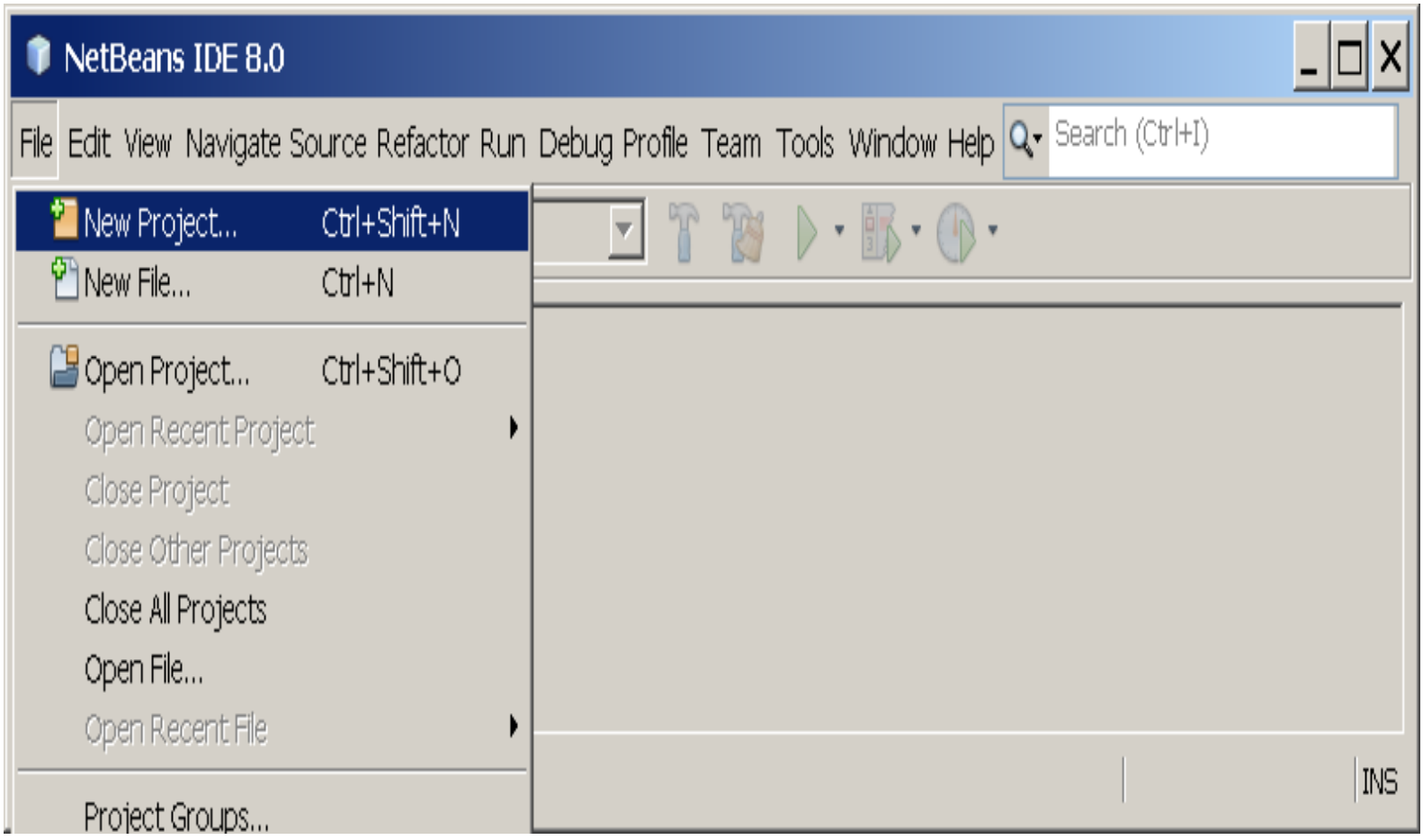
NetBeans Development environment

As I said in the previous lesson NetBeans IDE is my best Choose for beginners so we will start with it as our IDE Then we can use Eclipse for some reasons I will list them On its time.
So now After you install JDK and NetBeans from the Previous lesson its time to Go on and discover how to use NetBeans to Code Java.

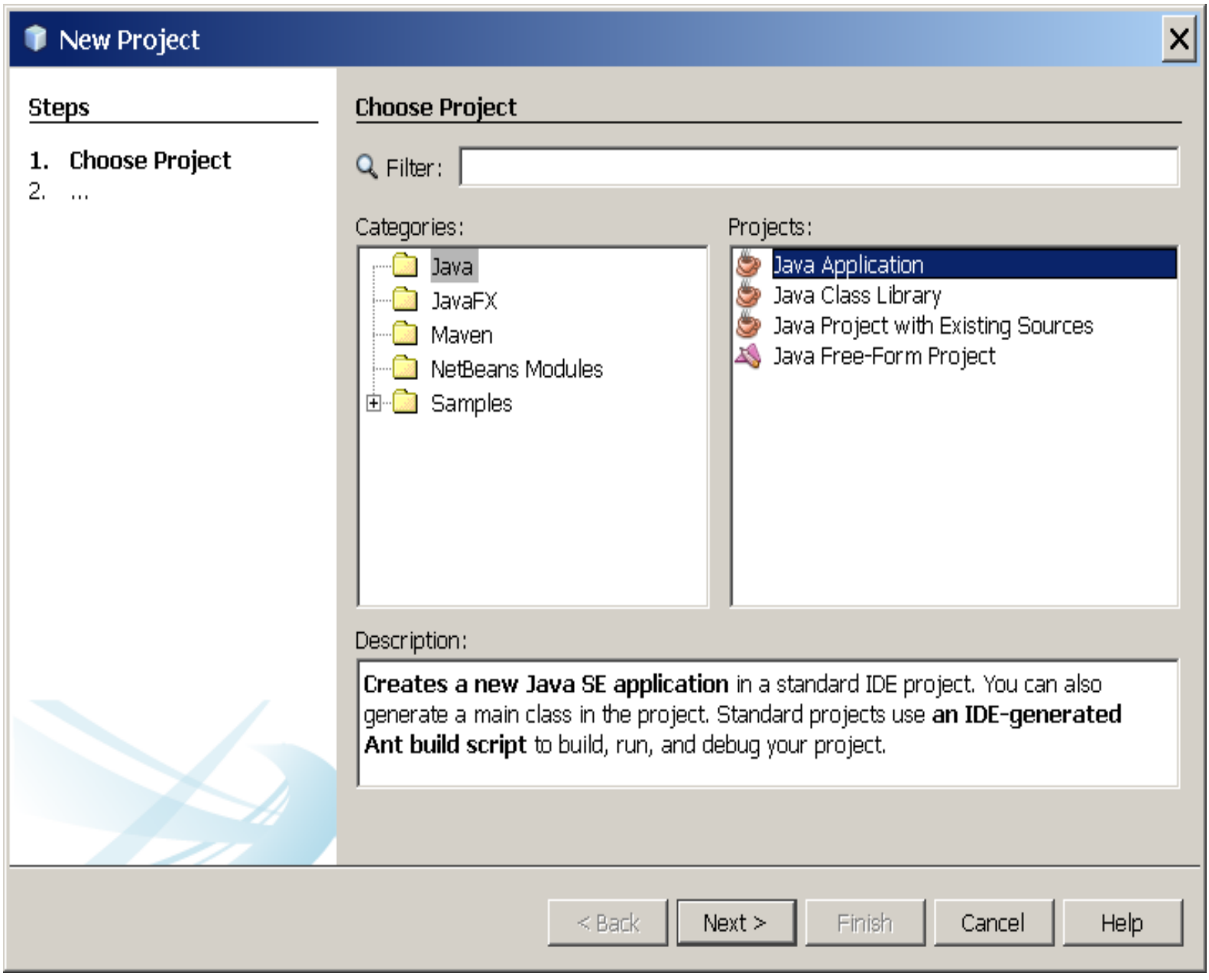
Instructions:

1-Open NetBeans and Start new Project



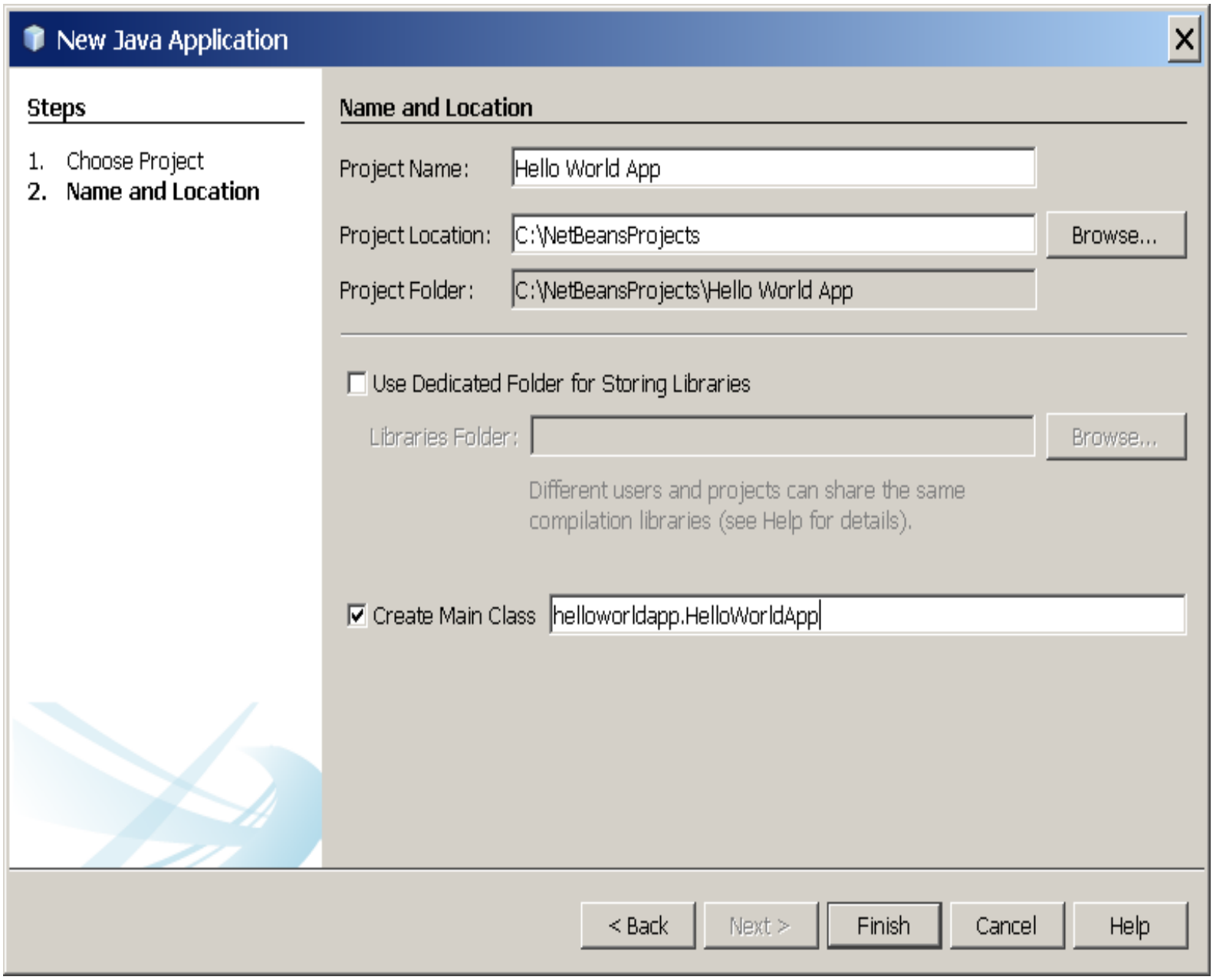
Instructions:

2-Choose Java application from the options



Instructions:

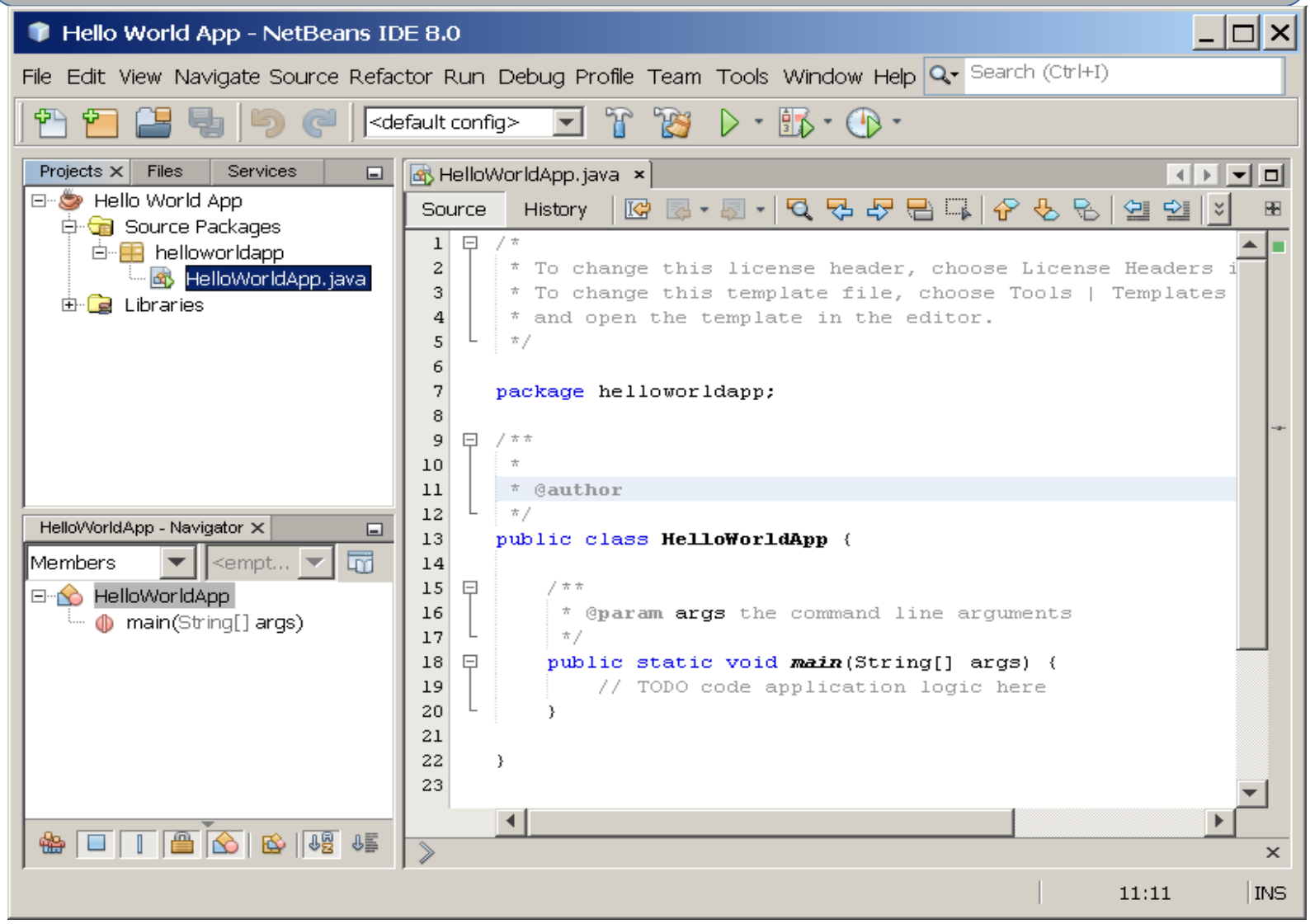
3-Follow New Project wizard, Choose Project Page.



In the **Project Name** field, type Hello World App.
In the **Create Main Class** field,
type helloworldapp.HelloWorldApp.

Instructions:

4-Now You will Get the project files and The default code For your project.



The Projects window, which contains a tree view of the Components of the project, including source files, libraries that Your code depends on, and so on.

The Source Editor window with a file called HelloWorldApp.java open.

The Navigator window, which you can use to quickly navigate between elements within the selected class.

Write Your first Code

As You can See in the NetBeans project windows
The IDE has therefore created a skeleton class for you.
You can add your code just under the this comment.

```
// TODO code application logic here
```

The Project Task

The Task of this Project is to Print Hello World text on The IDE Console.
You can Do that by adding this line of code after the above Comment.

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

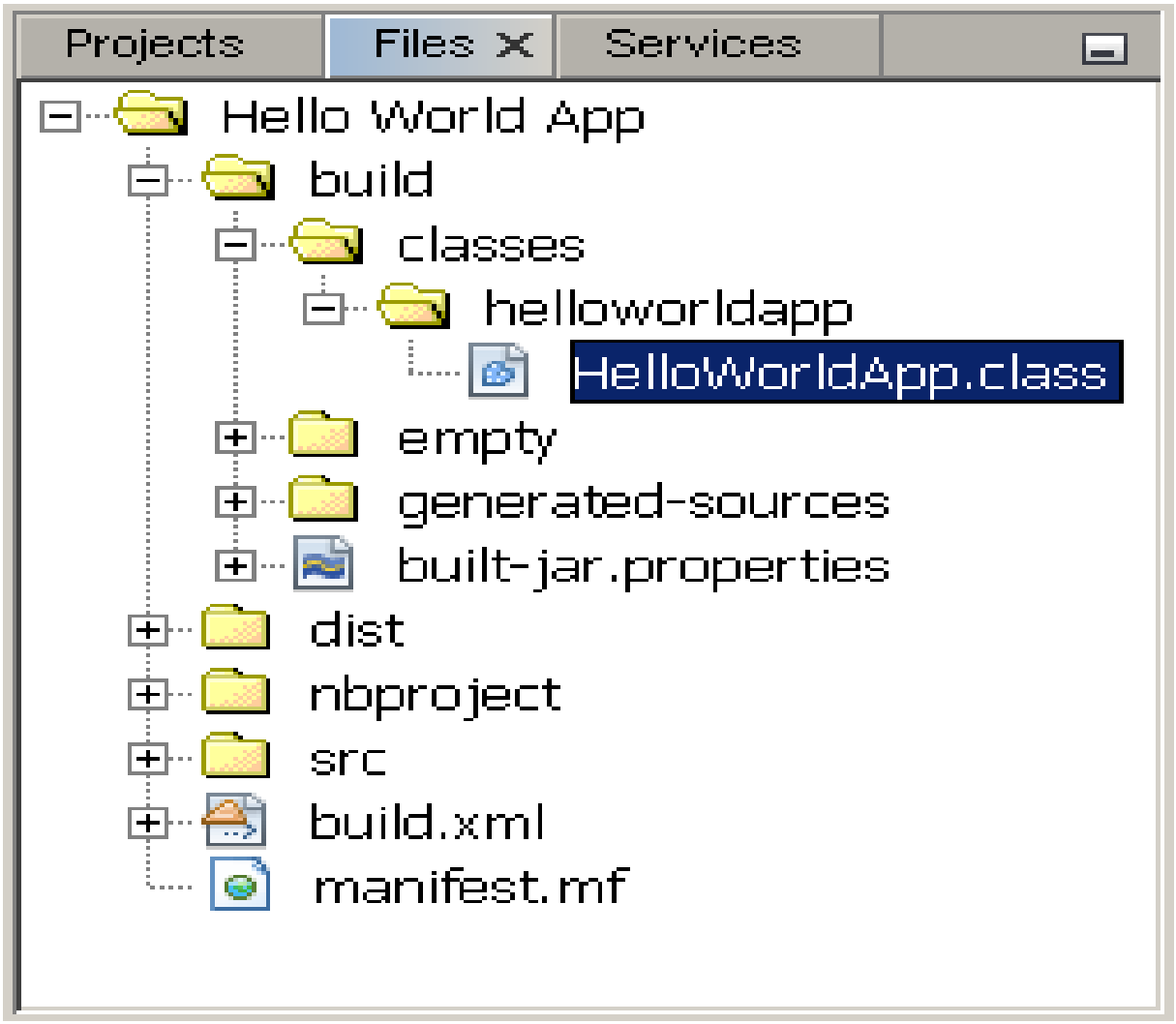
After That Let us run our app.

Instructions:

To compile your source file, choose
Run | Build Project (Hello World App)
From the IDE's main menu.

Great Work Pro :)

If all things going fine you will Build the project Successfully And the .class file will be generated as you can see.

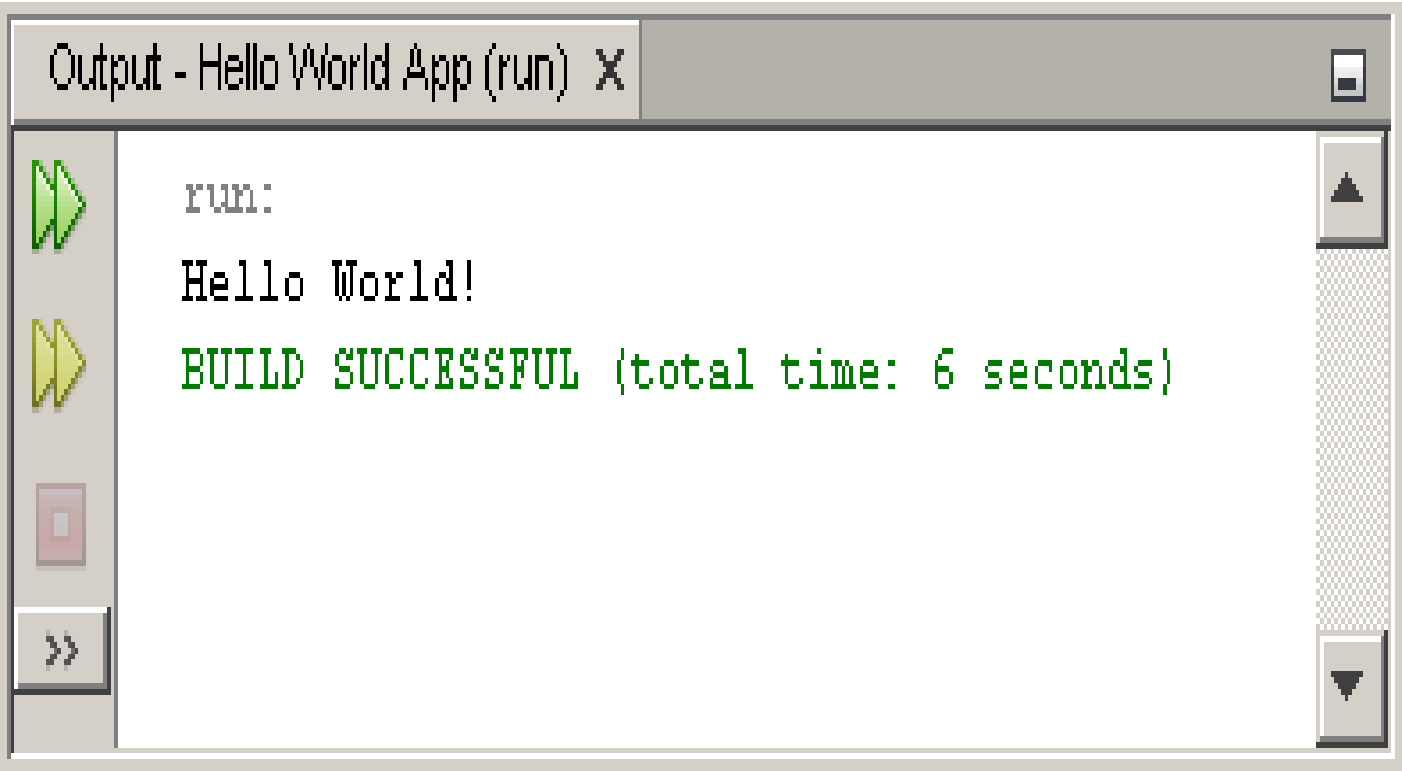


Now that you have built the project, Now We Need to run the Project and Get the output or our Code

Run The Project

Instructions:

To run your source file,
From the IDE's menu bar, choose Run | Run Main Project..



You will See this Screen in the output part of your IDE that Contain The Text we ant to print.
And Now let use Explain The Code....

Explain The Code

The Task of this Project is to Print Hello World text on The IDE output Console.
We Type only one line of code to do that and after runing We get the output
If this line of code will do the task ,What about the others Lines

```
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
```

In Java Any line start with "//" will be as comment for you Not for the compiler to read and run it
And if you want to write some lines of comments
You will use this pattern
/* your comments 1
Your comments 2
*/
All the lines inside /* --- */ will be treated as comment
You can delete them if you want to it will not effect on Your application.
So All these lines is just comment to explain the real code We will not explain these

Explain The Code

```
package helloworldapp;
```

This is The start of the real Code for your application
This line tell the complier that.
The package for this project is **helloworledapp**
This Package will contain all source code for this project
The package name will be the same as project name will Be created By default

Note:
The name of the package like the name of the file can not Start with number or contain spaces
The package name will be in lower case only but the file name can be in upper case.
Java is case sensitive so be careful when your type as App is differ from app

Explain The Code

```
  public class HelloWorldApp {


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

       }
```

The main Part of Java code is Classes where
You type your code on it it is like a container contain Code
The name of the class must be the name of the Project With
The case-sensitive.
Public means that this class can be shown for any file in the package.
Then **{** that point to the start and the end of class code **}**
In the Class
The main function is the master of your code
When the compile start to build your project it will go first
And run the main function then the main function will call all
Others functions in the code or even separated files
But every Java project will start build with the main function.
The name of the main function must be the same as in code
To let the compiler Now that this is the main function
We will explain the parameters of the function later

Explain The Code

```
  public class HelloWorldApp {


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

       }
```

Now Its time for our line of code
All the previous codes is the default way to make Java Program in define the package then create the class the write The main function.
After that you start your custom code to do the task
We want to print hello world text in the output
So We call from the Java API System lib then call from it the the Child then call from it println function.
This is the way to use functions from Java API
In tree way call the lib or parent then child then child if exist Until you find the function you want and call it with the Requited parameters.
The println function requiters string parameter to print it
So we will send “hello World” as the parameter to this function
The name of the function is print + ln told us that
This function will print new line after any call of it.
We will make some examples of that later.

The Project Code& Presentation

You can Find The project Code and Presentation in the Hello world Folder in The source code
Also you can submit your own code in the repo. for this Tutorials on my Git hub account here
Z-Team GitHub

Waiting for any question ,comments ,reply on any social media or repo wiki.

Thank You For Watching

I am still not Better, But I always try .

See You Next