

Quick Introduction to Apache Netbeans 11

For Java Training

Prepared By: Chay Weei Jye

Email: wjchay88@yahoo.com

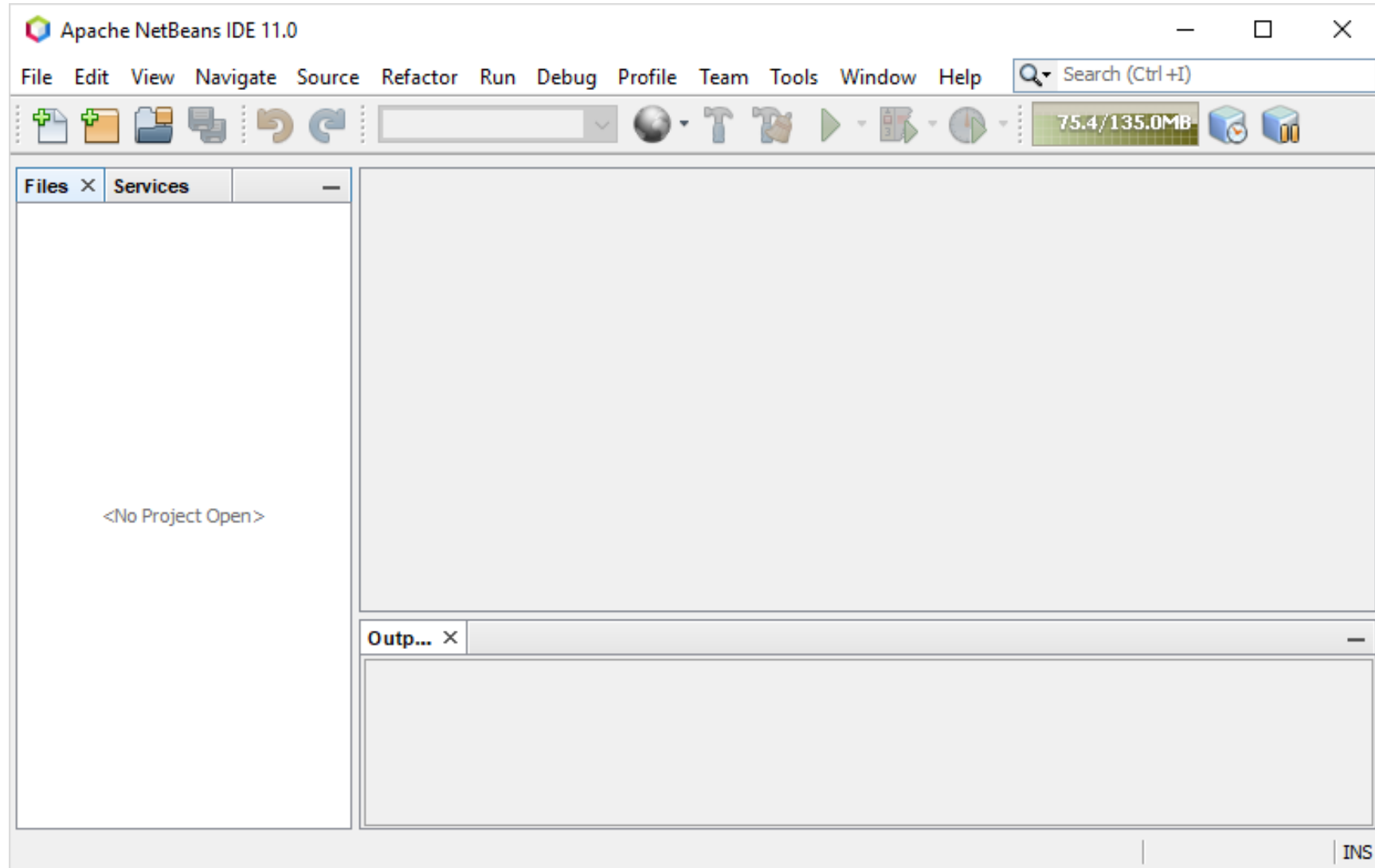
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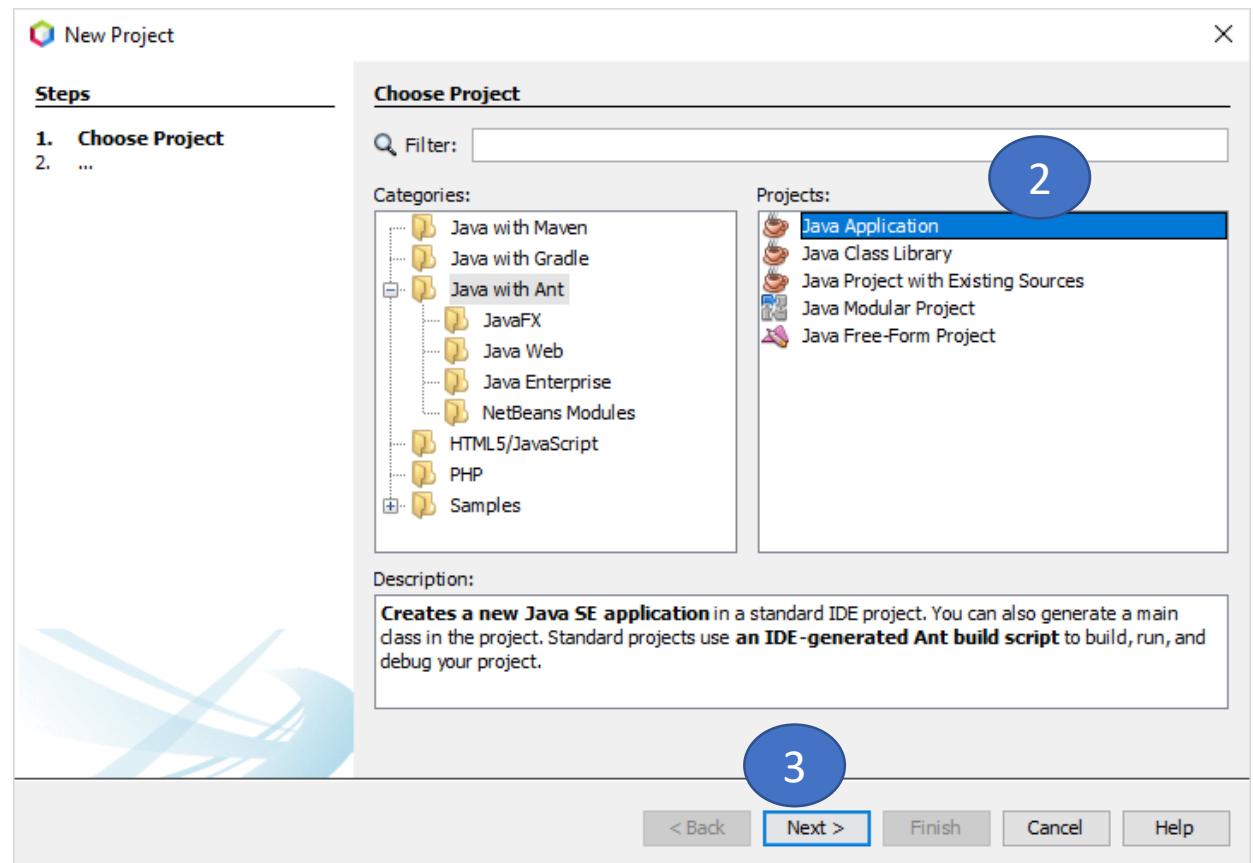
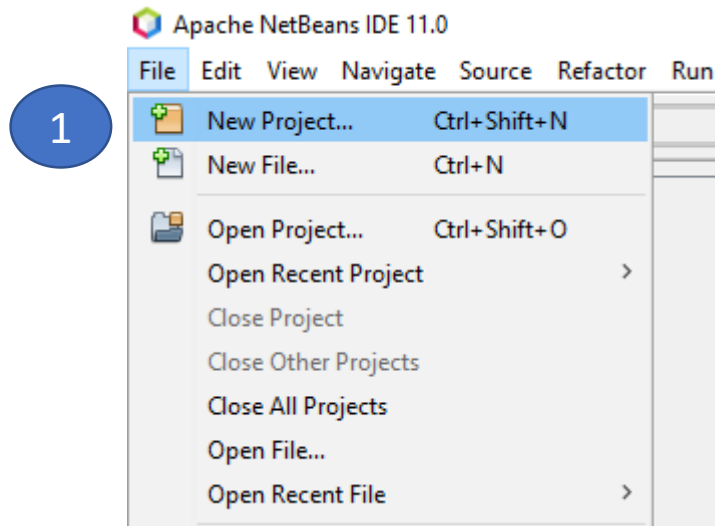
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Integrated Development Environment



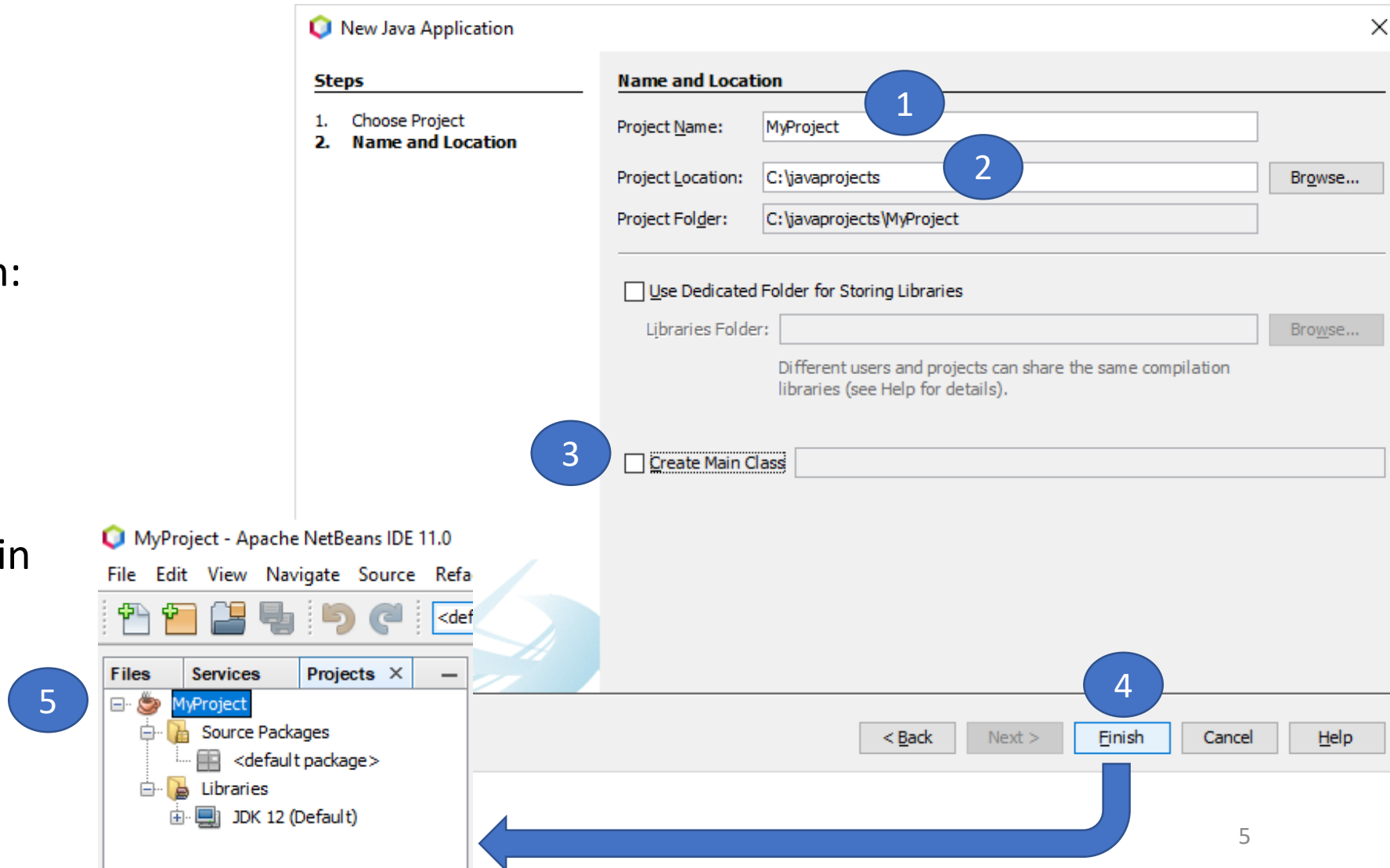
Create a New Project (1/2)

- Launch Netbeans IDE
 1. Choose **File -> New Project...**
 2. Choose **Java with Ant -> Java Application**
 3. Click **Next >**



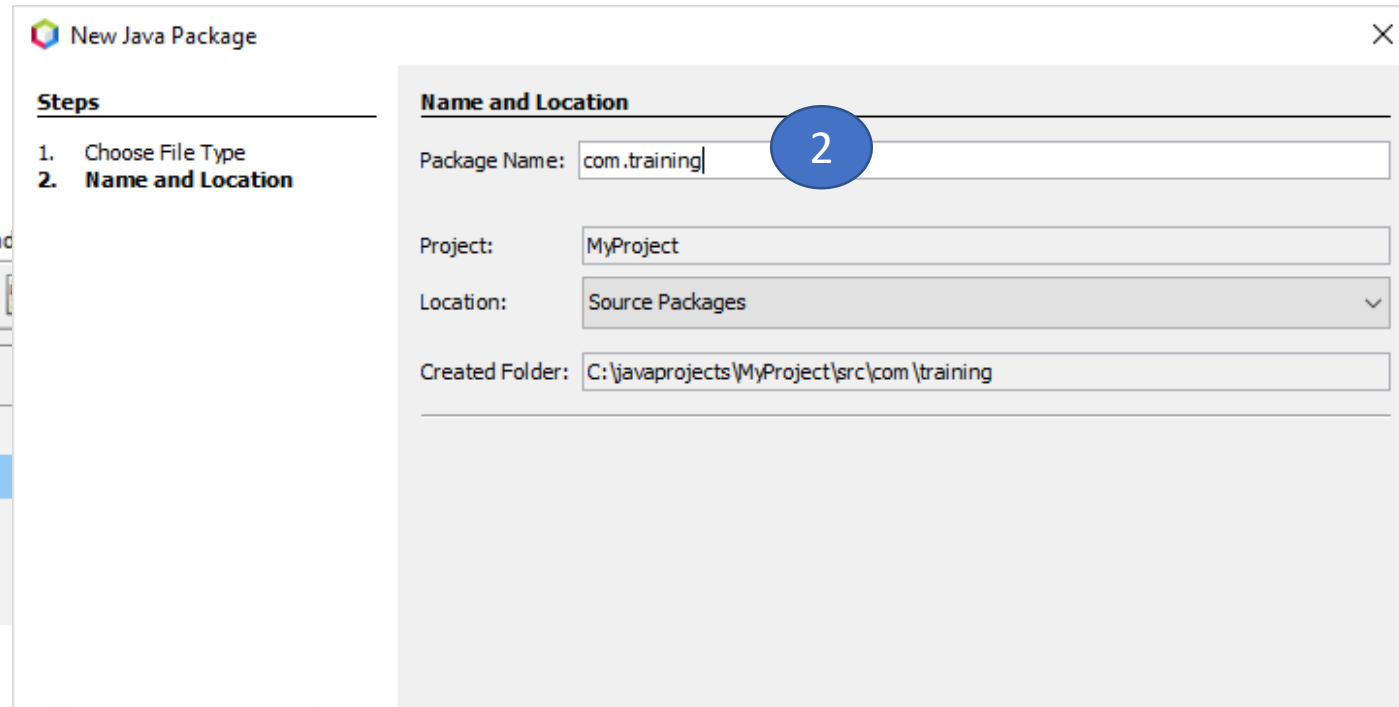
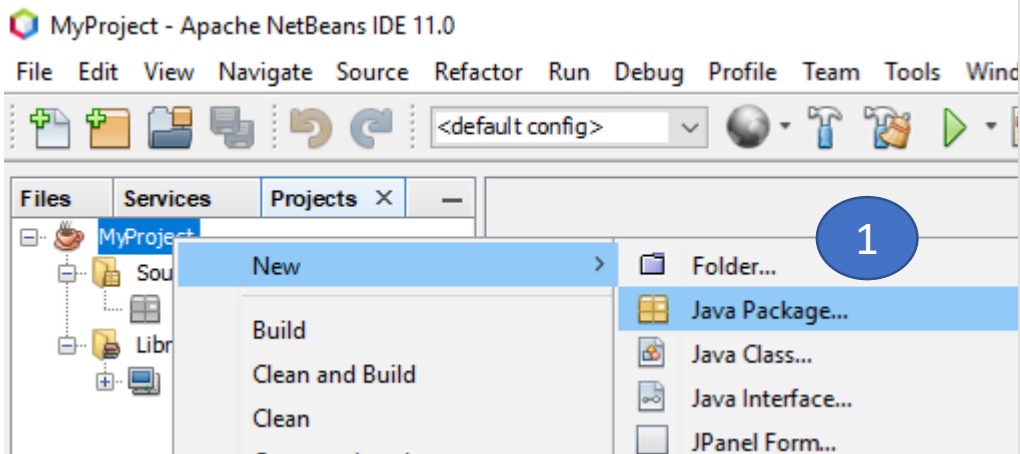
Create a New Project (2/2)

1. Enter Project Name:
MyProject
2. Create a folder in
Windows Explorer:
C:\javaprojects, then
enter Project Location:
C:\javaprojects
3. Uncheck Create Main
Class
4. Choose **Finish**
5. **MyProject** is created in
IDE. Double-click
MyProject to expand
structure.

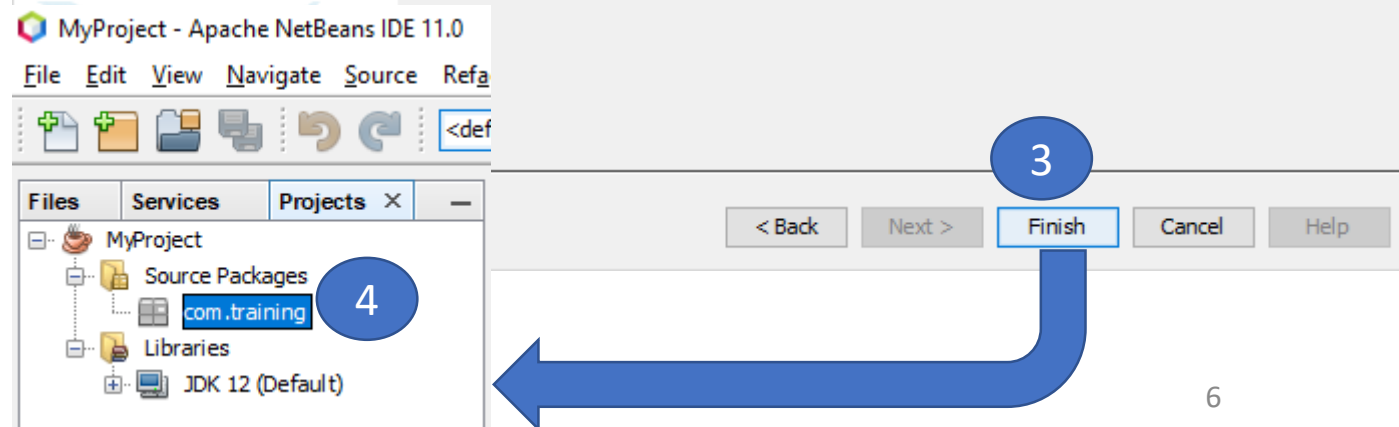


Create a New Java Package

1. Right click on **MyProject**, choose **New -> Java Package...**

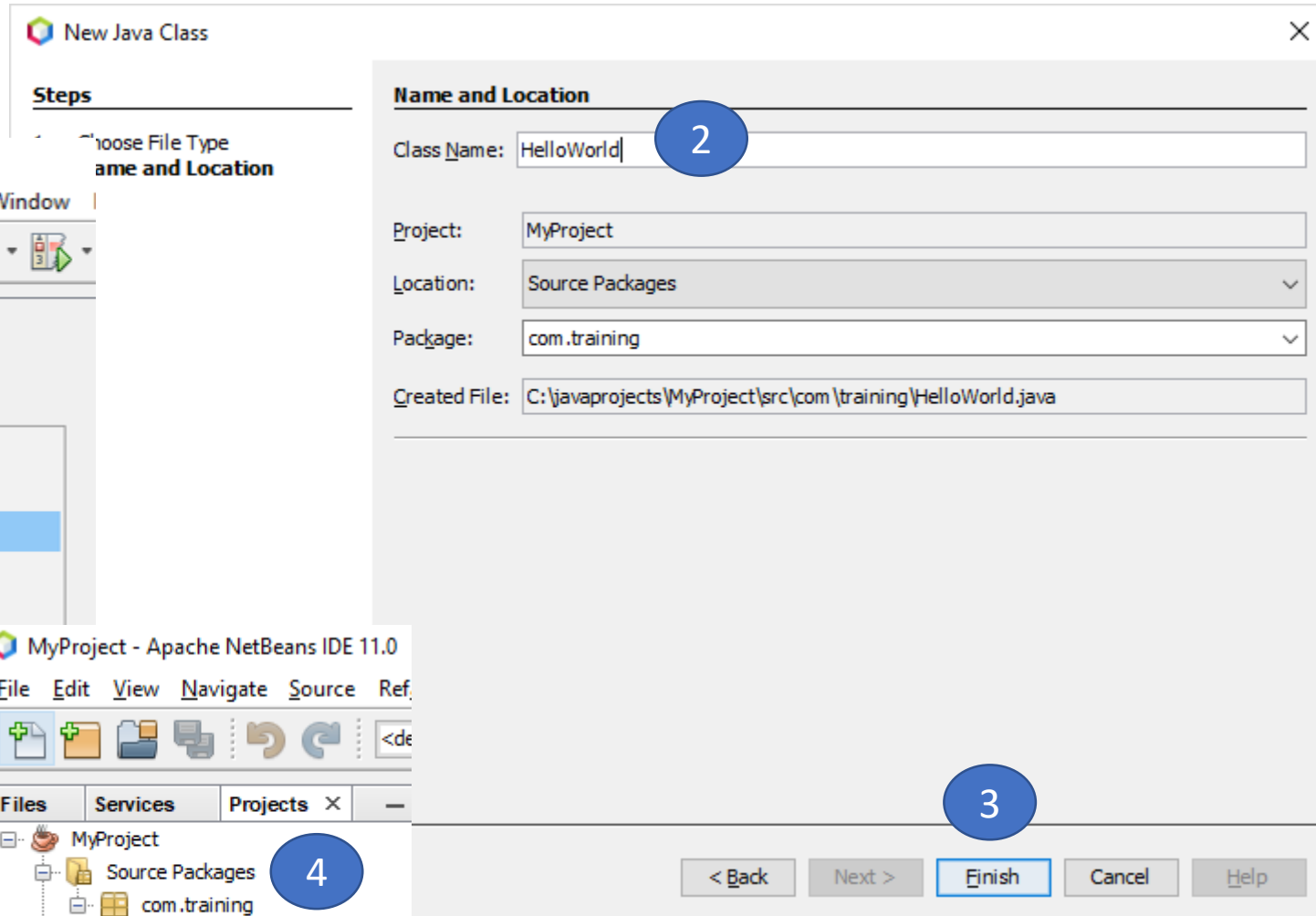
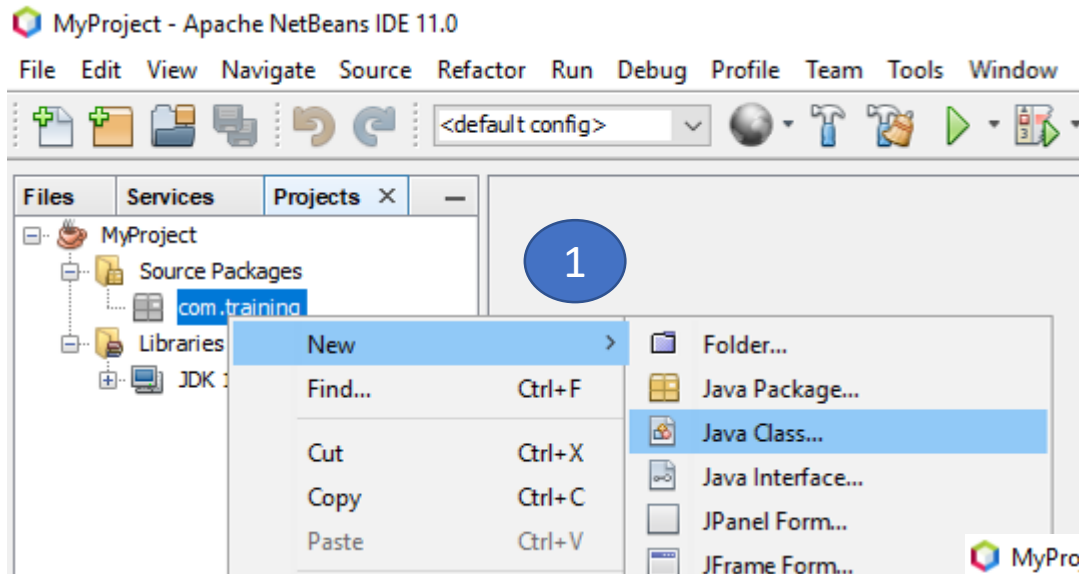


2. Enter Package Name: **com.training**
3. Click on **Finish**
4. **com.training** package created

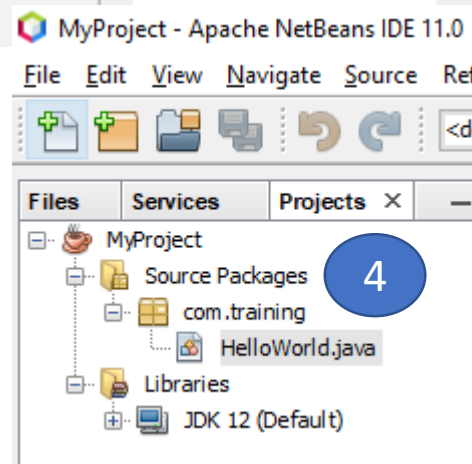


Create a New Java Class

1. Right click on **com.training**, choose **New -> Java Class...**

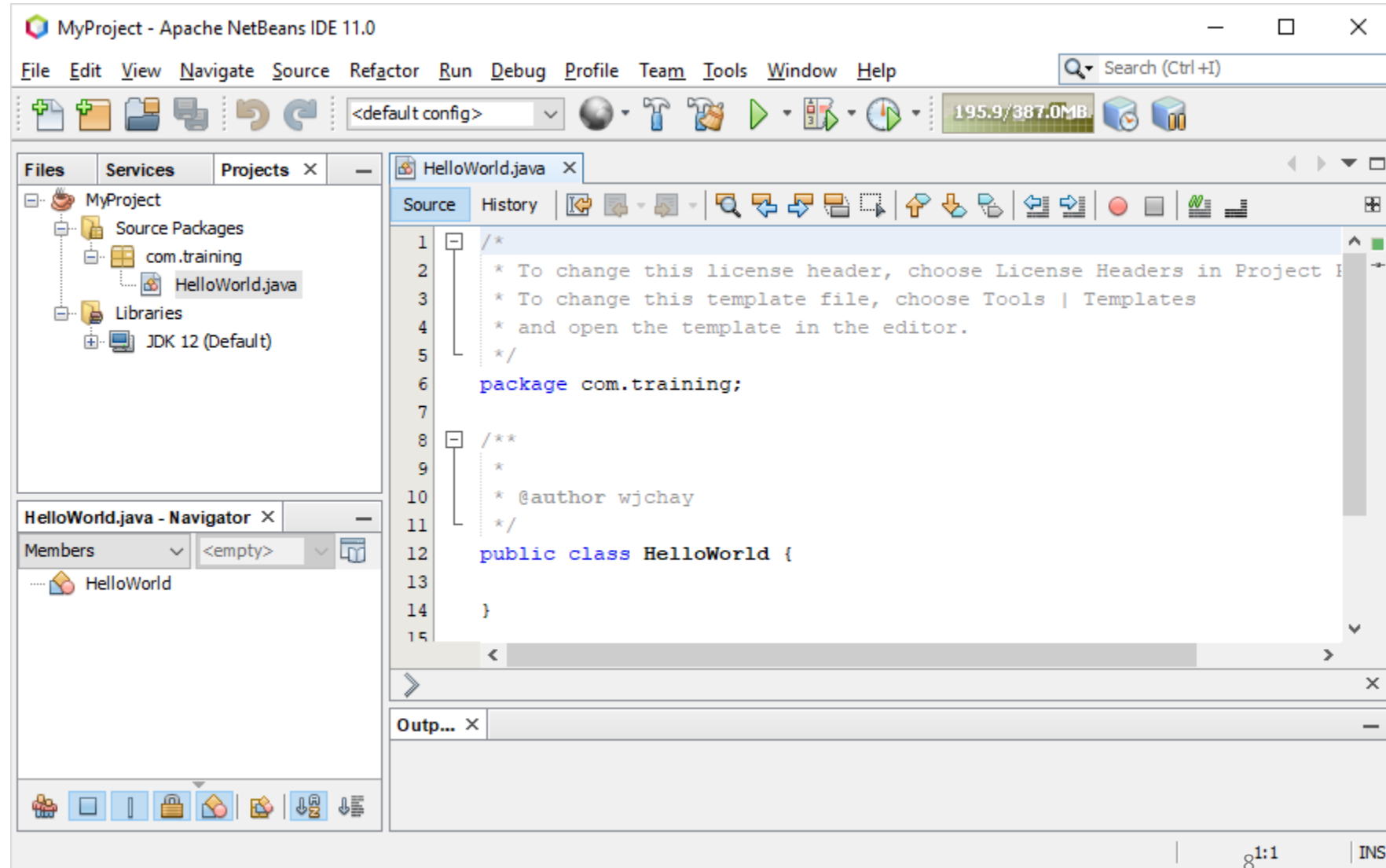


2. Enter Class Name: **HelloWorld**
3. Click on **Finish**
4. **HelloWorld.java** class created



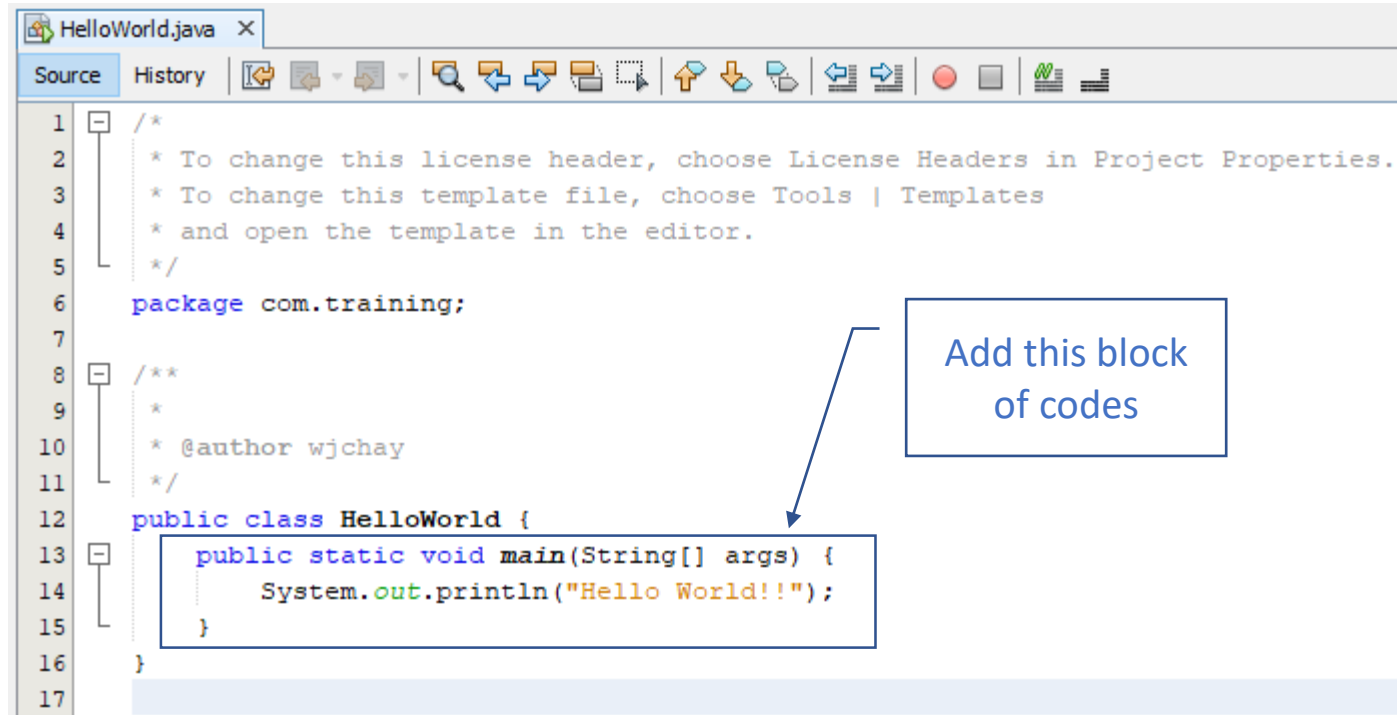
Add Code to Generated Source File (1/2)

- This screen shows the HelloWorld.java class generated by the IDE based on previous steps.



Add Code to Generated Source File (2/2)

- Add a block of code to the class as shown.
- **Control-S** to save the file.
- This will output “Hello World!!” when the program is run.



The screenshot shows an IDE window titled 'HelloWorld.java'. The code is as follows:

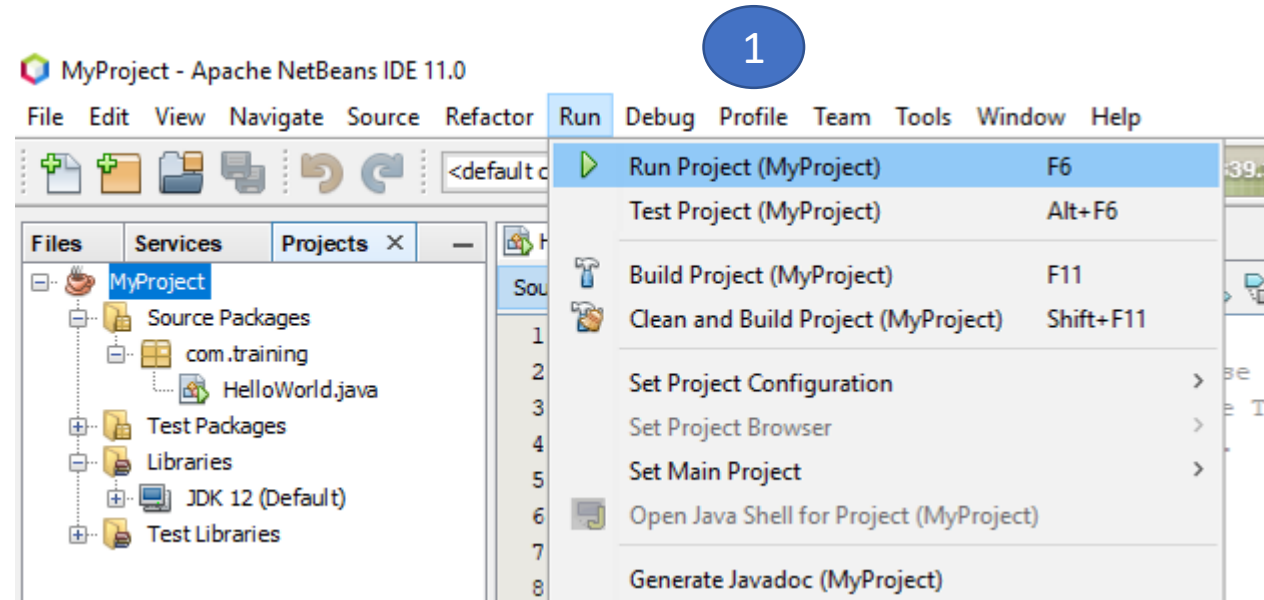
```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package com.training;
7
8  /**
9   *
10   * @author wjchay
11   */
12  public class HelloWorld {
13      public static void main(String[] args) {
14          System.out.println("Hello World!!");
15      }
16  }
17
```

A blue box highlights the new `main` method added in lines 13-15. A blue arrow points from a text box to this method.

Add this block of codes

Run the Project

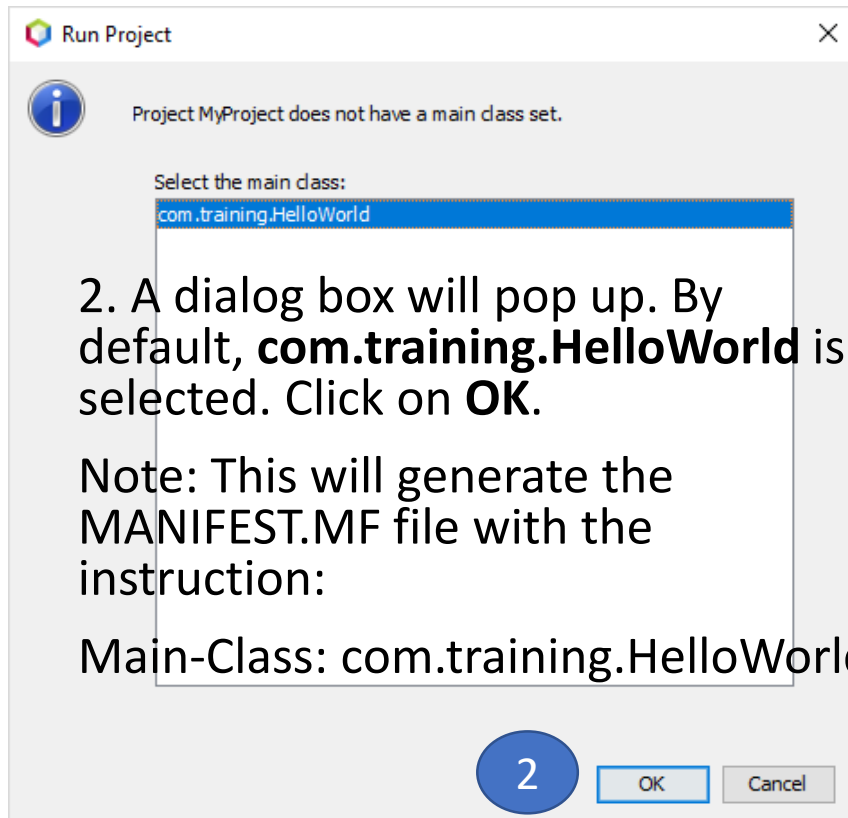
1. From the **Run** pull down menu, choose **Run Project (MyProject) F6**



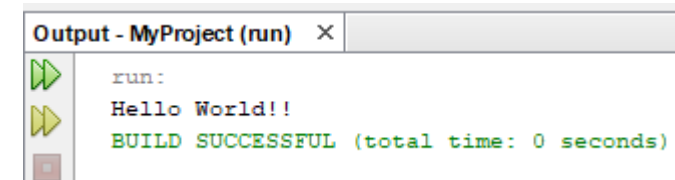
2. A dialog box will pop up. By default, **com.training.HelloWorld** is selected. Click on **OK**.

Note: This will generate the MANIFEST.MF file with the instruction:

Main-Class: com.training.HelloWorld

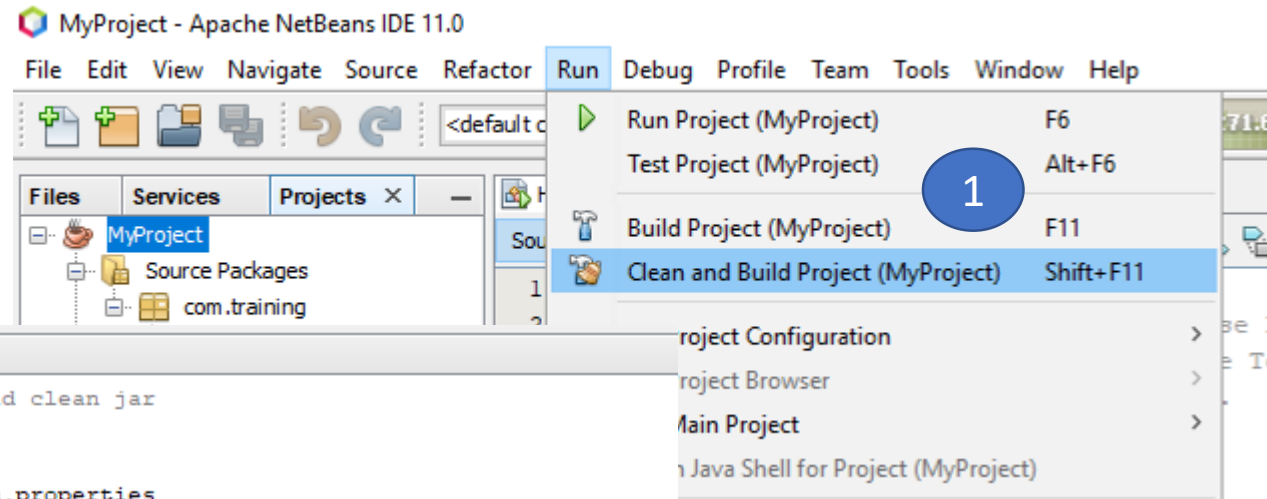


3. Observe the Output window below:



Build and Deploy the Project (1/2)

1. From the **Run** pull down menu, choose **Clean and Build Project (MyProject)** **Shift + F11**

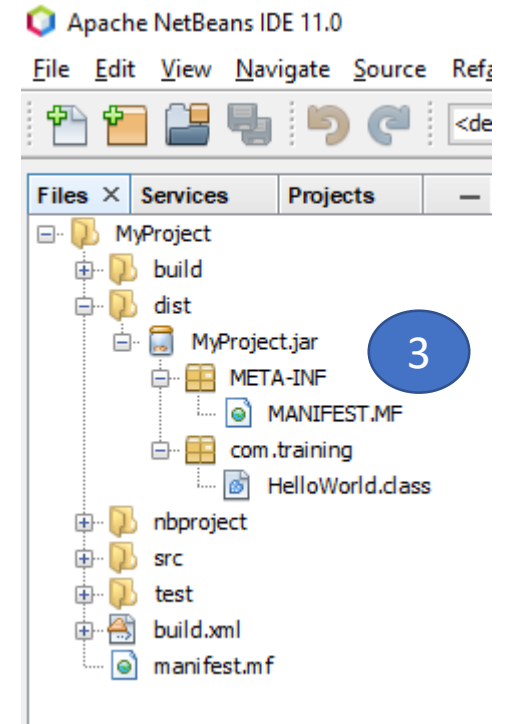
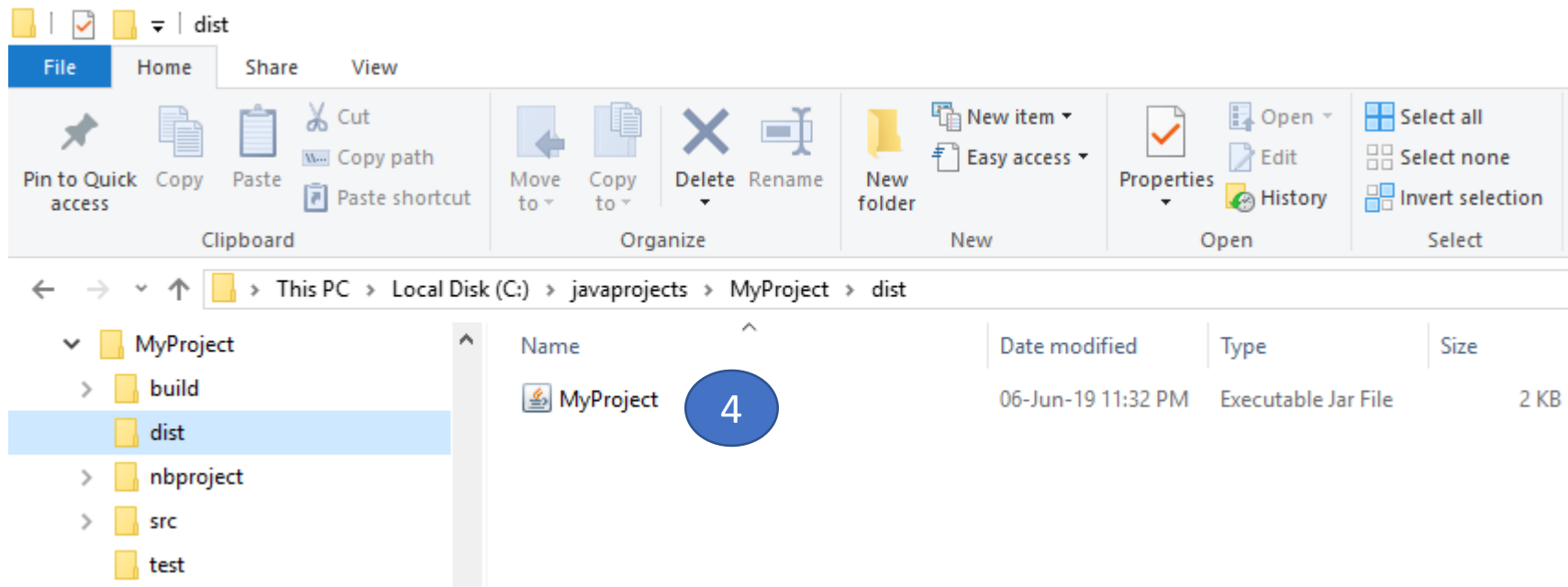


2. Observe the Output window

Build and Deploy the Project (2/2)

3. Click on the **Files** tab, expand the **dist** folder. There is a .jar file called **MyProject.jar**, which can be distributed to be run by itself or used by other projects.

4. The file MyProject.jar can be found in Windows Explorer as shown below.



Run the Distribution Java Archive (JAR) Independently (without IDE)

```
Command Prompt
Microsoft Windows [Version 10.0.17134.765]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\wjchay>cd C:\javaprojects\MyProject\dist

C:\javaprojects\MyProject\dist>dir
Volume in drive C has no label.
Volume Serial Number is 3CD3-9516

Directory of C:\javaprojects\MyProject\dist

06-Jun-19  11:32 PM    <DIR>          .
06-Jun-19  11:32 PM    <DIR>          ..
06-Jun-19  11:32 PM                1,319 MyProject.jar
               1 File(s)                1,319 bytes
               2 Dir(s)  371,444,441,088 bytes free

C:\javaprojects\MyProject\dist>java -jar MyProject.jar
Hello World!!

C:\javaprojects\MyProject\dist>
```

Go to the project distribution folder

Enter command to run the jar file

Program output