An Introduction to IntelliJ

IntelliJ IDE for Java Developers

Produced by: Dr. Siobhán Drohan
Mr. Colm Dunphy
Mr. Diarmuid O'Connor
Dr. Frank Walsh

Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

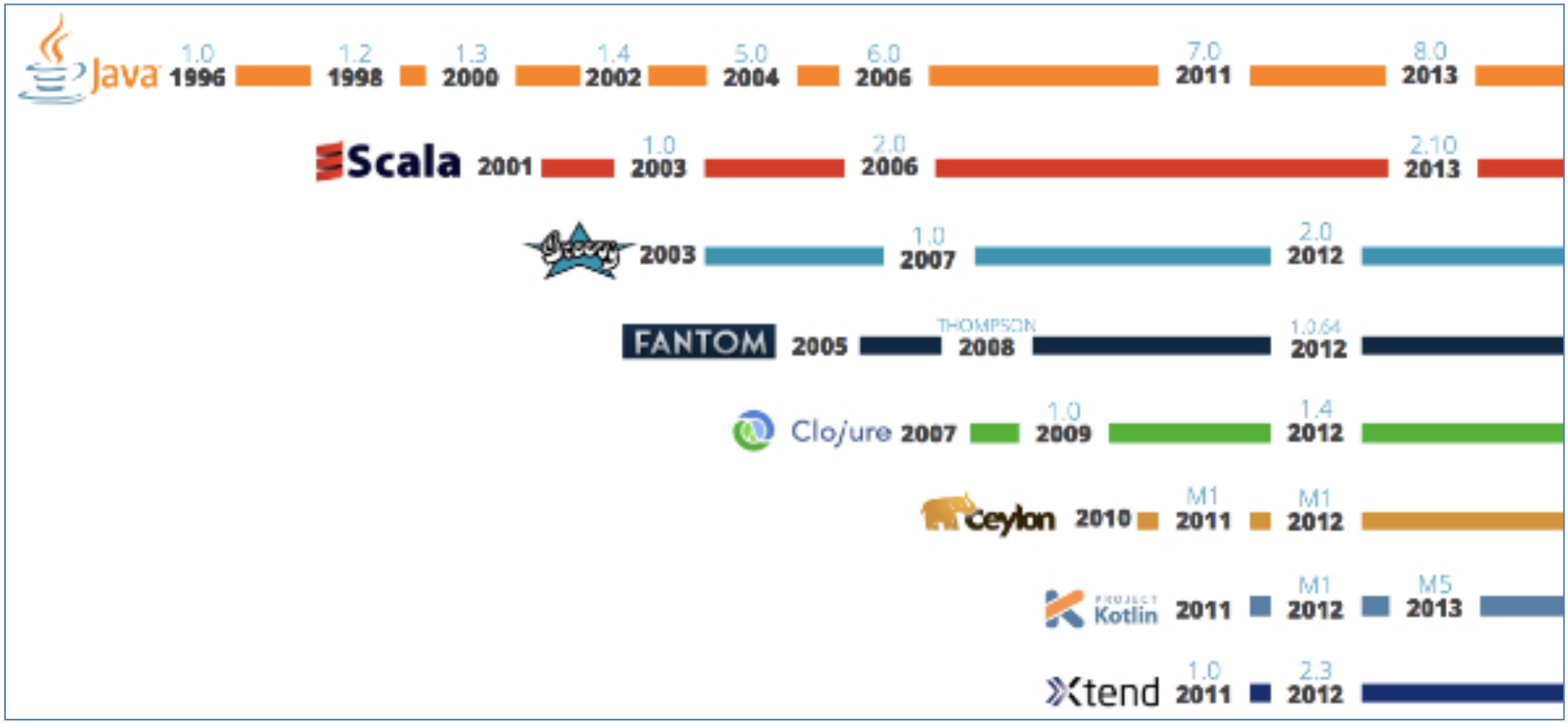
Department of Computing and Mathematics
http://www.wit.ie/

” Most people talk about Java the language, and this may sound odd coming from me, but I could hardly care less. At the core of the Java ecosystem is the JVM. “

James Gosling,

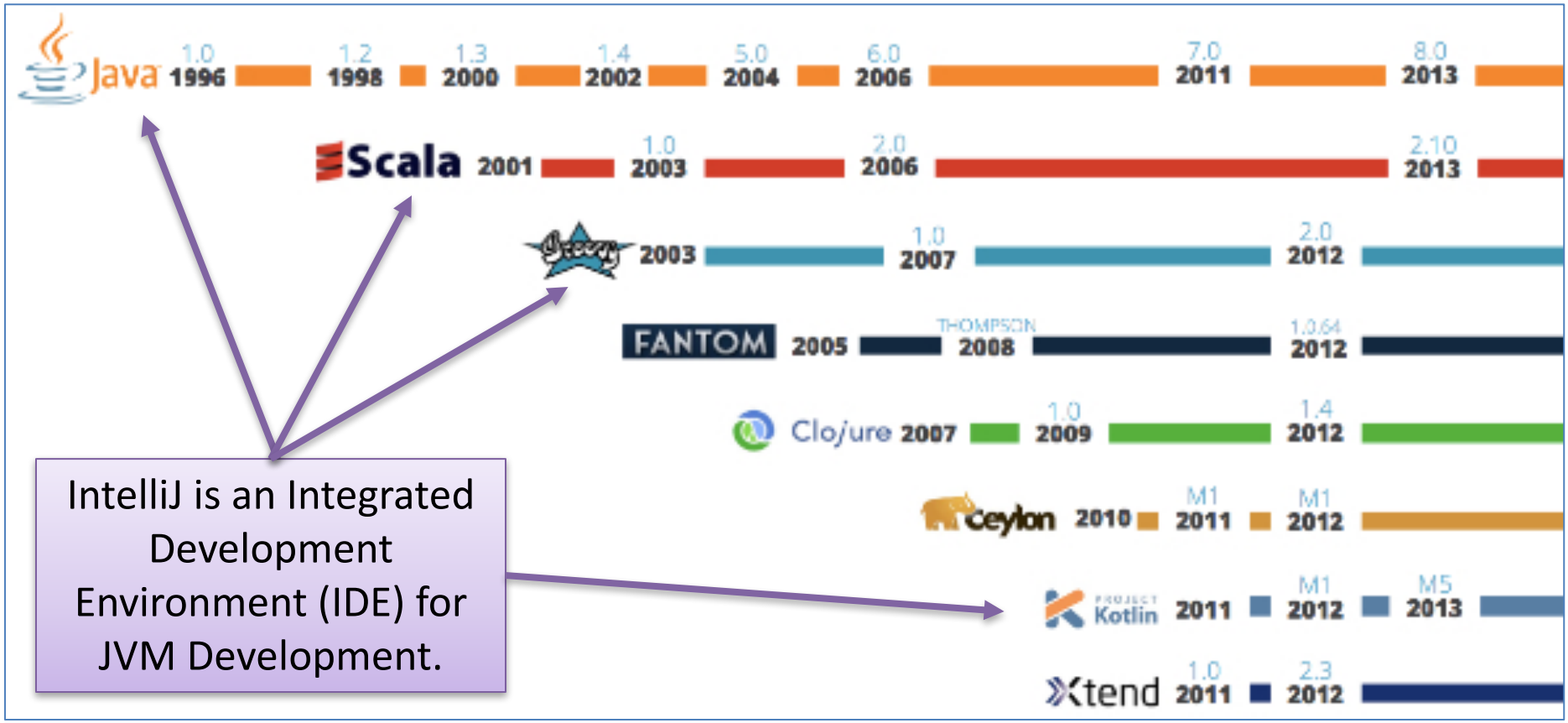
Creator of the Java Programming Language(2011, TheServerSide)

JVM Language History

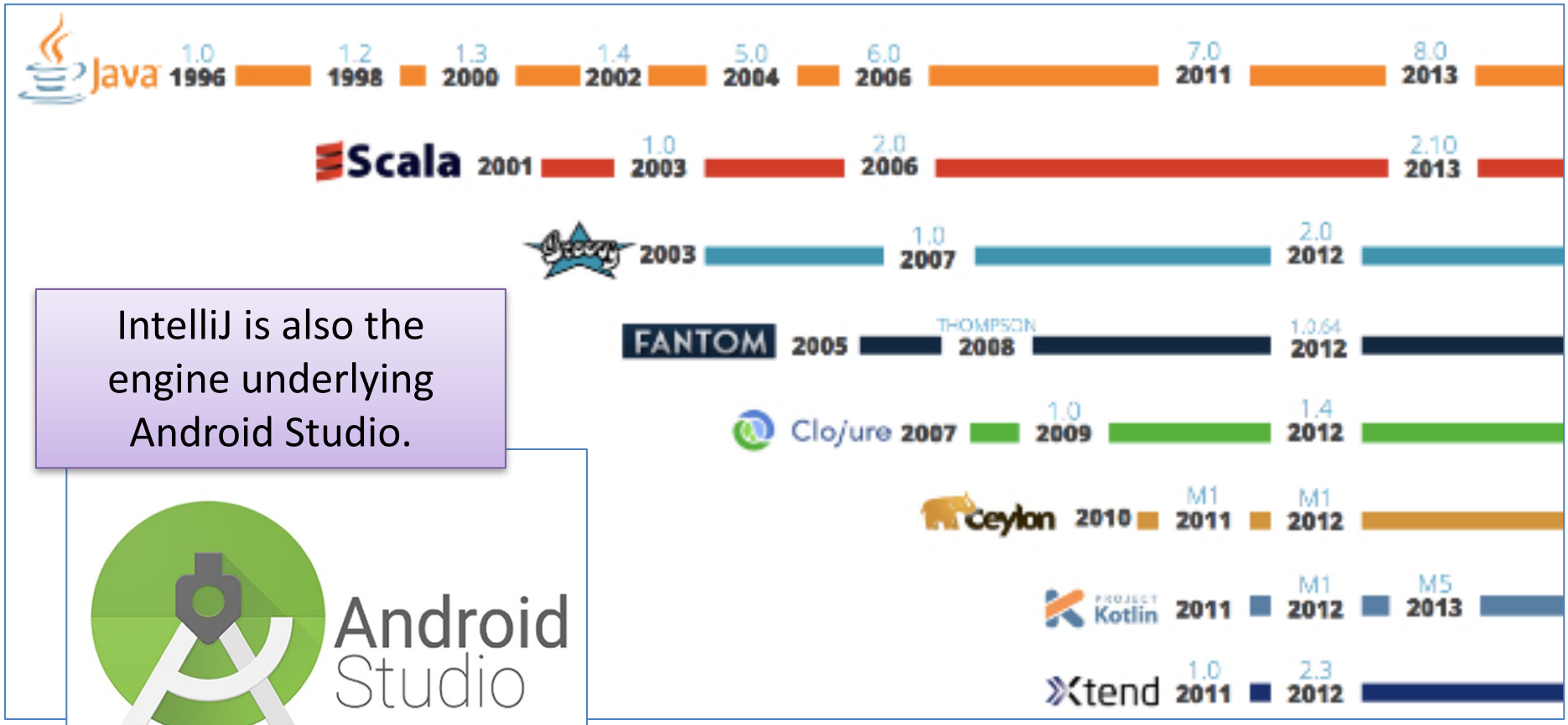


Source

IntelliJ and the JVM



IntelliJ and the JVM



IntelliJ is also the engine underlying Android Studio.

Android Studio

Installing IntelliJ

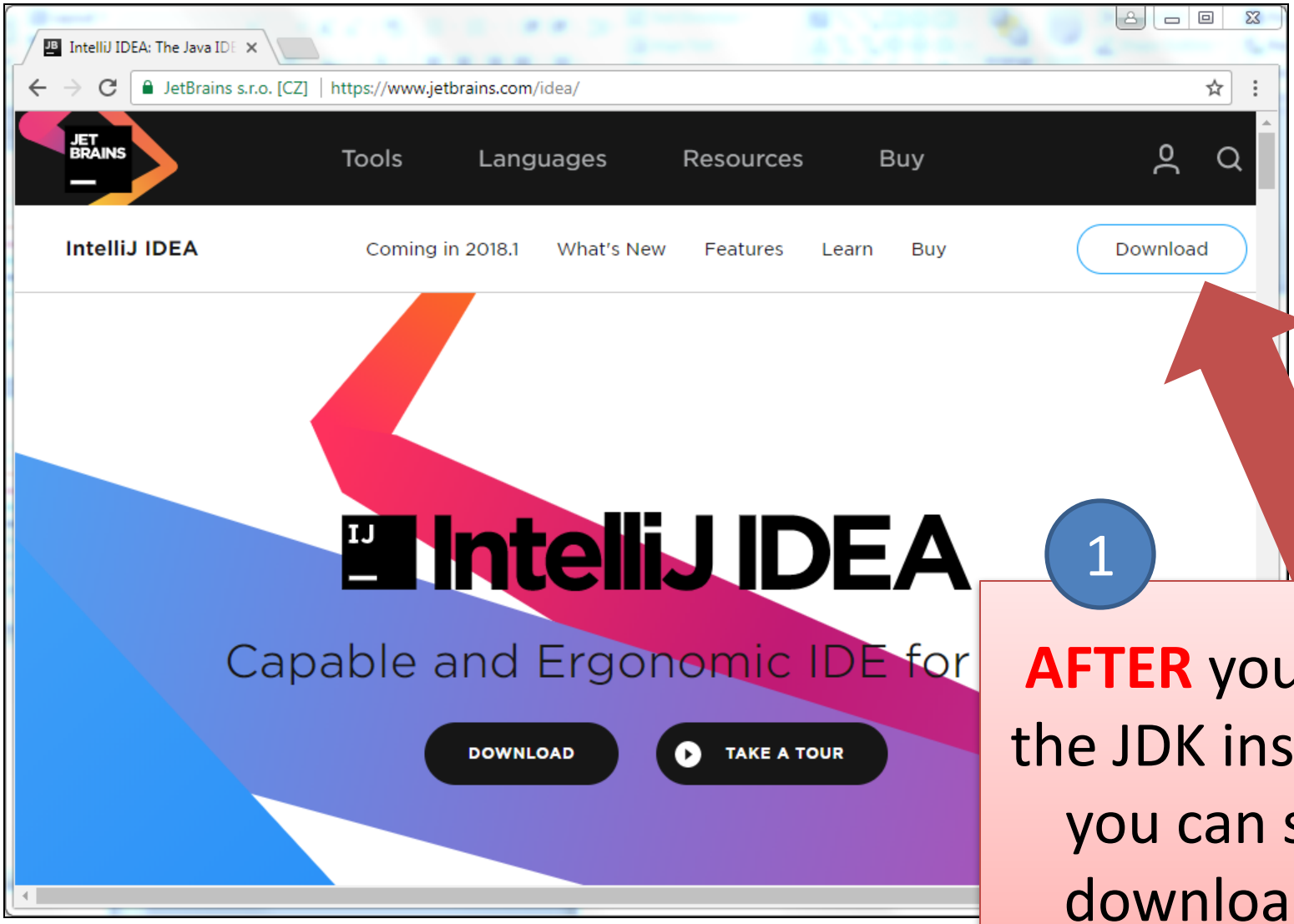
BEFORE you install IntelliJ
Download and Install the **JDK** first using
IE on windows or Safari on OSX!

2 IntelliJ Editions:

- **Community** (free) is a subset of
- **Ultimate** (paid)

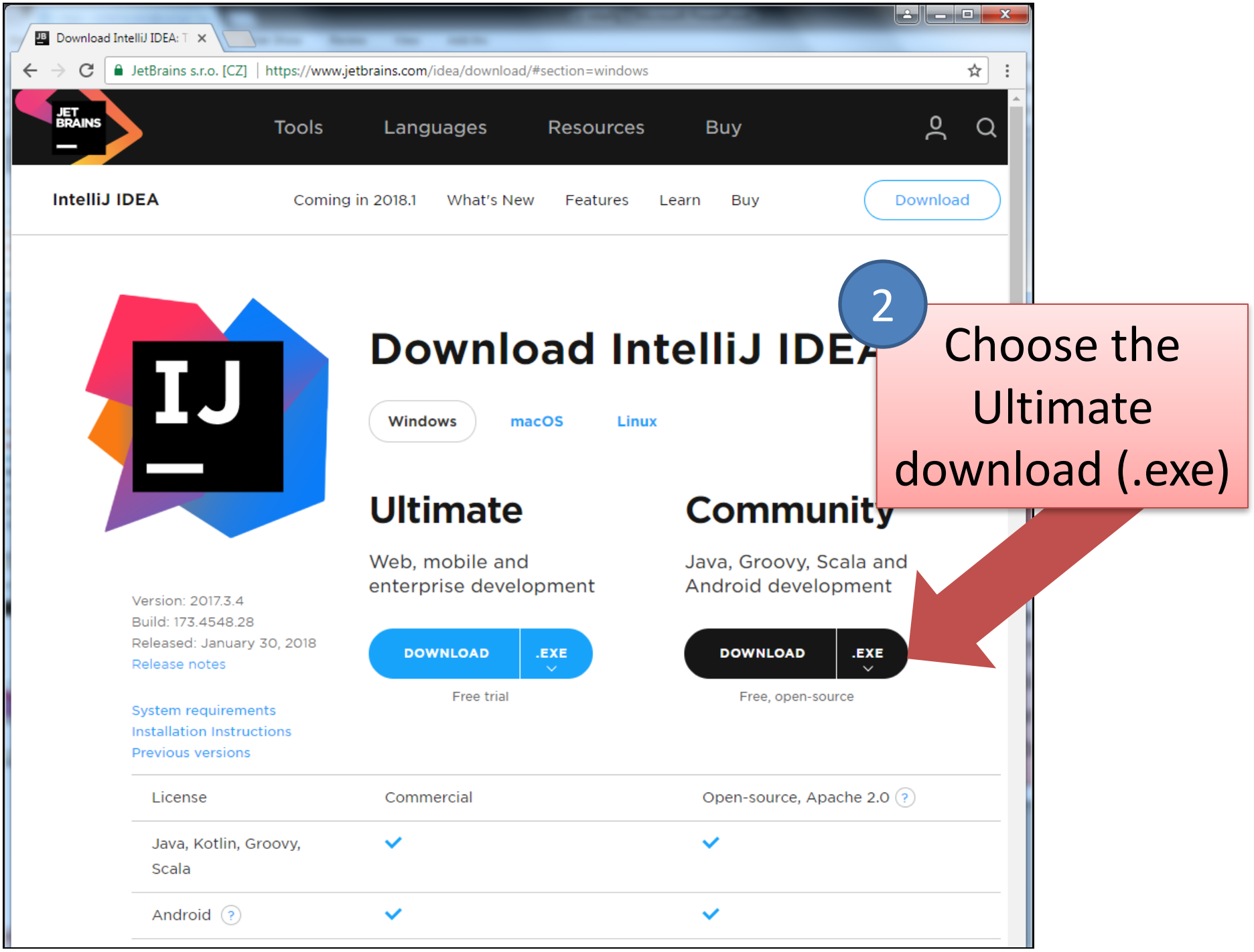
As a WIT student you can use **ULTIMATE**

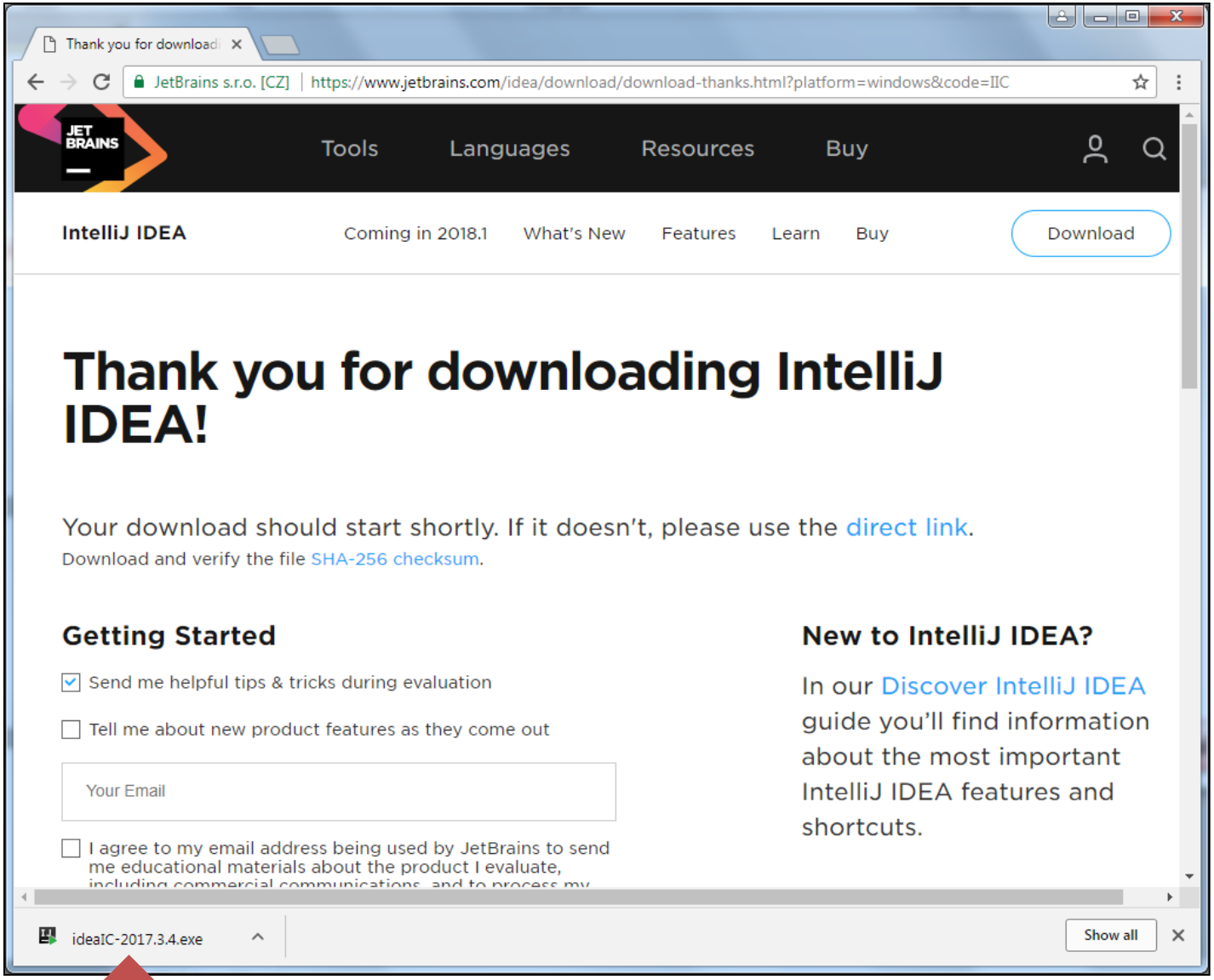
The following slides show how to install Community Edition.
Lab 07a demonstrates similar steps to install Ultimate instead. Use Ultimate!



1

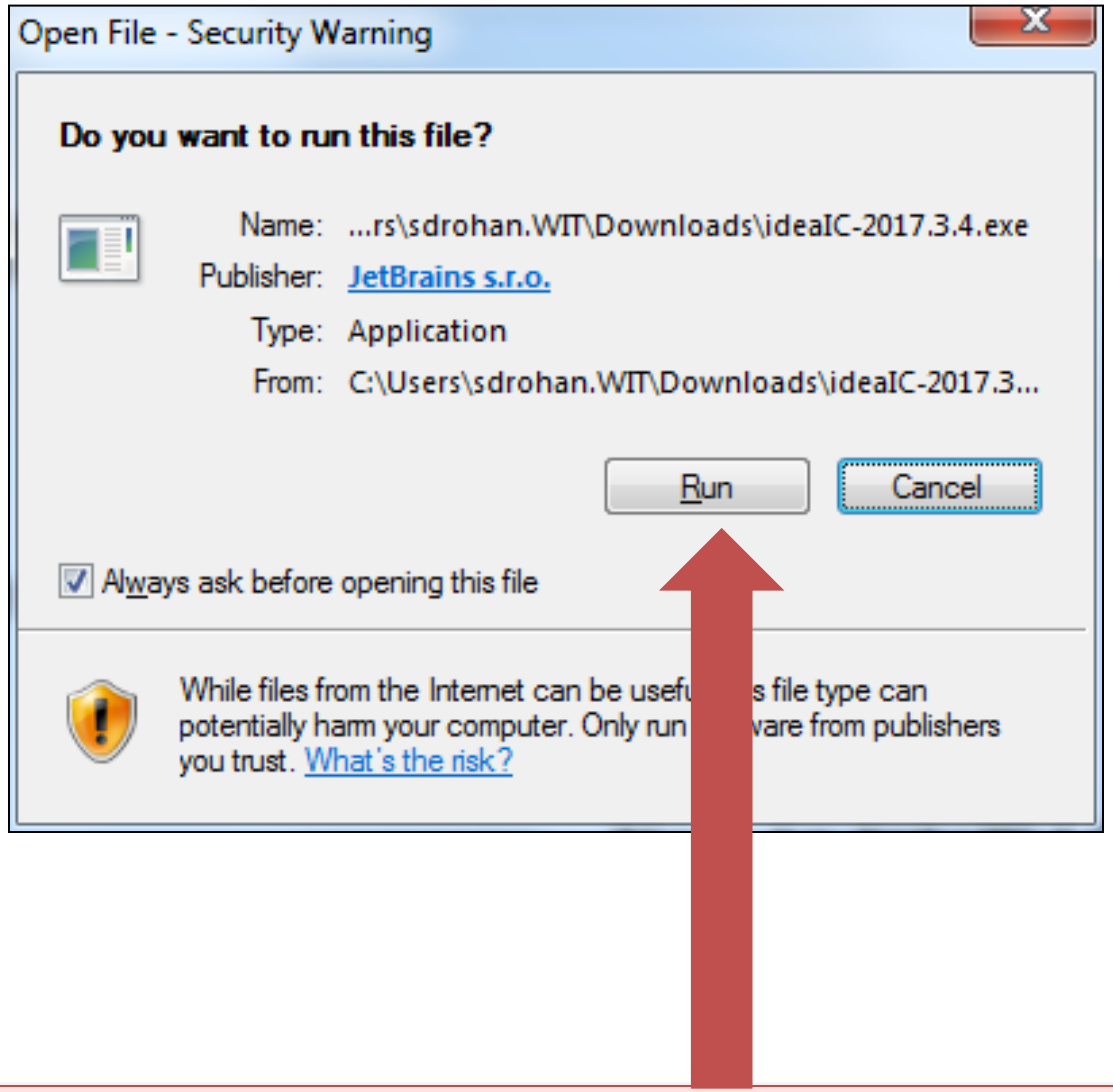
AFTER you have the JDK installed, you can start downloading **IntelliJ**.


Download IntelliJ IDEA: T
JetBrains s.r.o. [CZ] | https://www.jetbrains.com/idea/download/#section=windows
JET BRAINS
Tools
Languages
Resources
Buy
IntelliJ IDEA
Coming in 2018.1
What's New
Features
Learn
Buy
Download
IJ
Download IntelliJ IDEA
Windows
macOS
Linux
Ultimate
Web, mobile and enterprise development
DOWNLOAD
.EXE
Free trial
Community
Java, Groovy, Scala and Android development
DOWNLOAD
.EXE
Free, open-source
Version: 2017.3.4
Build: 173.4548.28
Released: January 30, 2018
Release notes
System requirements
Installation Instructions
Previous versions
License
Commercial
Open-source, Apache 2.0
Java, Kotlin, Groovy, Scala
Android
2
Choose the Ultimate download (.exe)



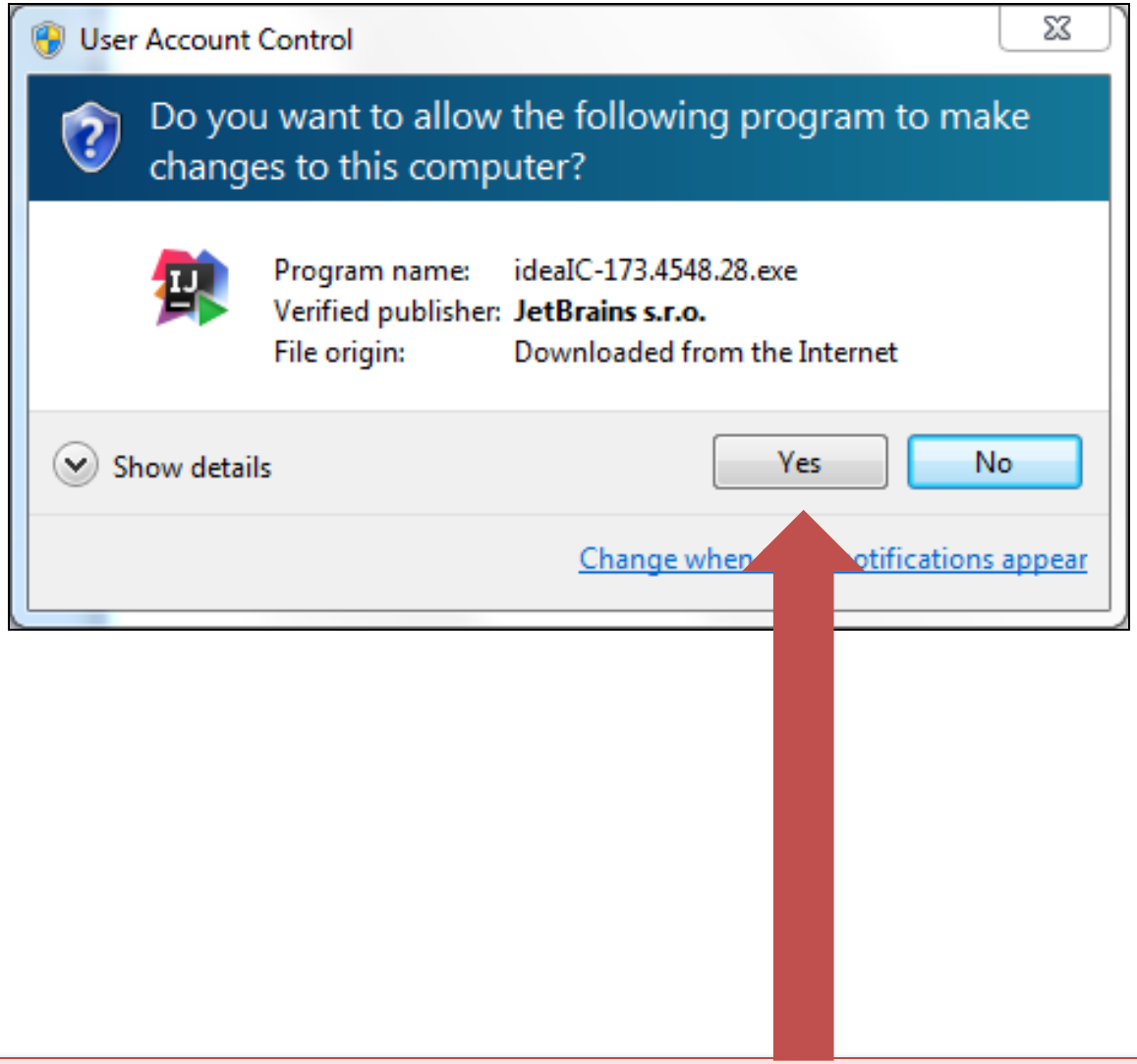
3

Click on the downloaded file to start the installation.



4

If you are presented with a security warning, click **Run**.

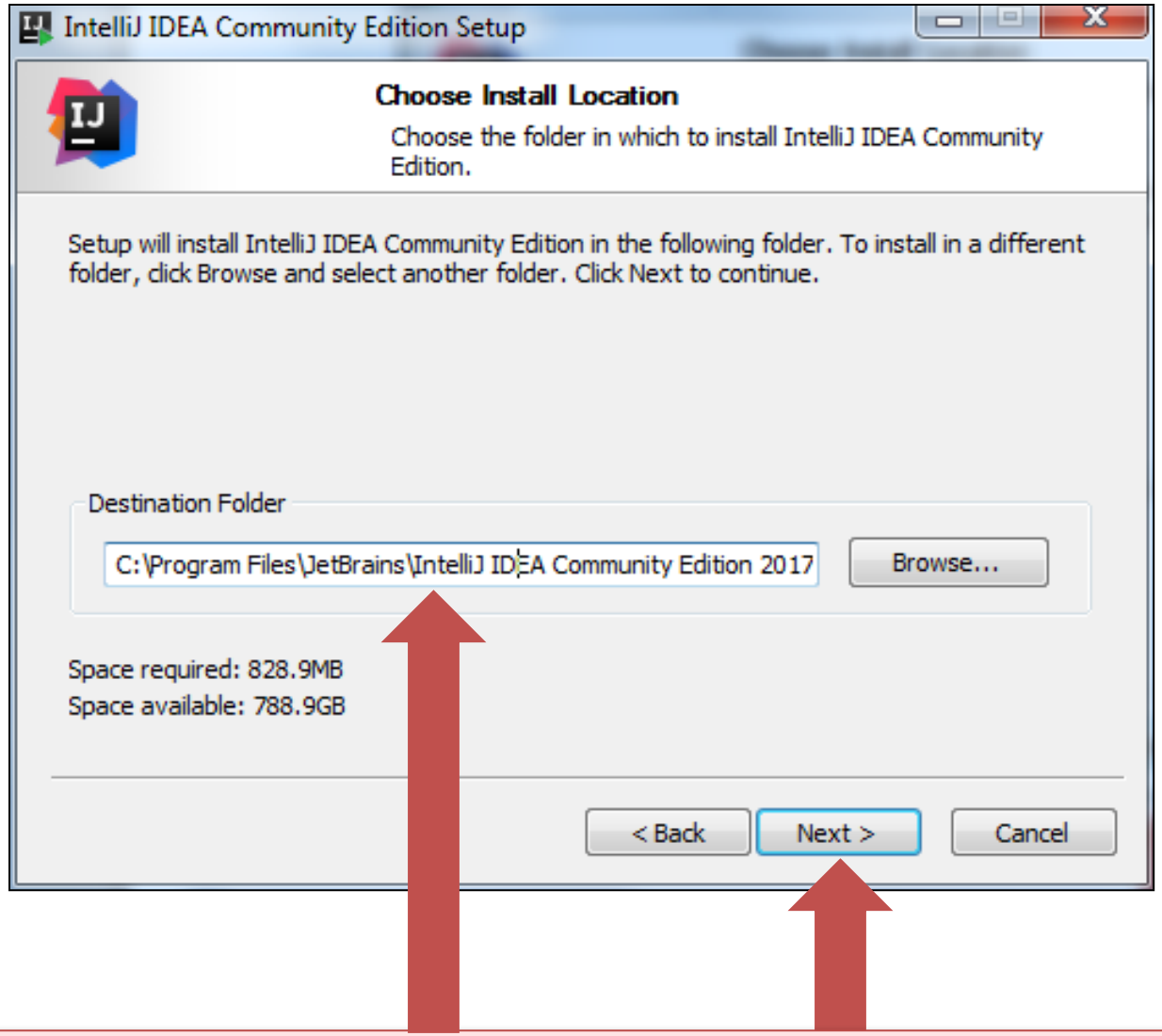


5

If you are presented with this warning, click **Yes**.

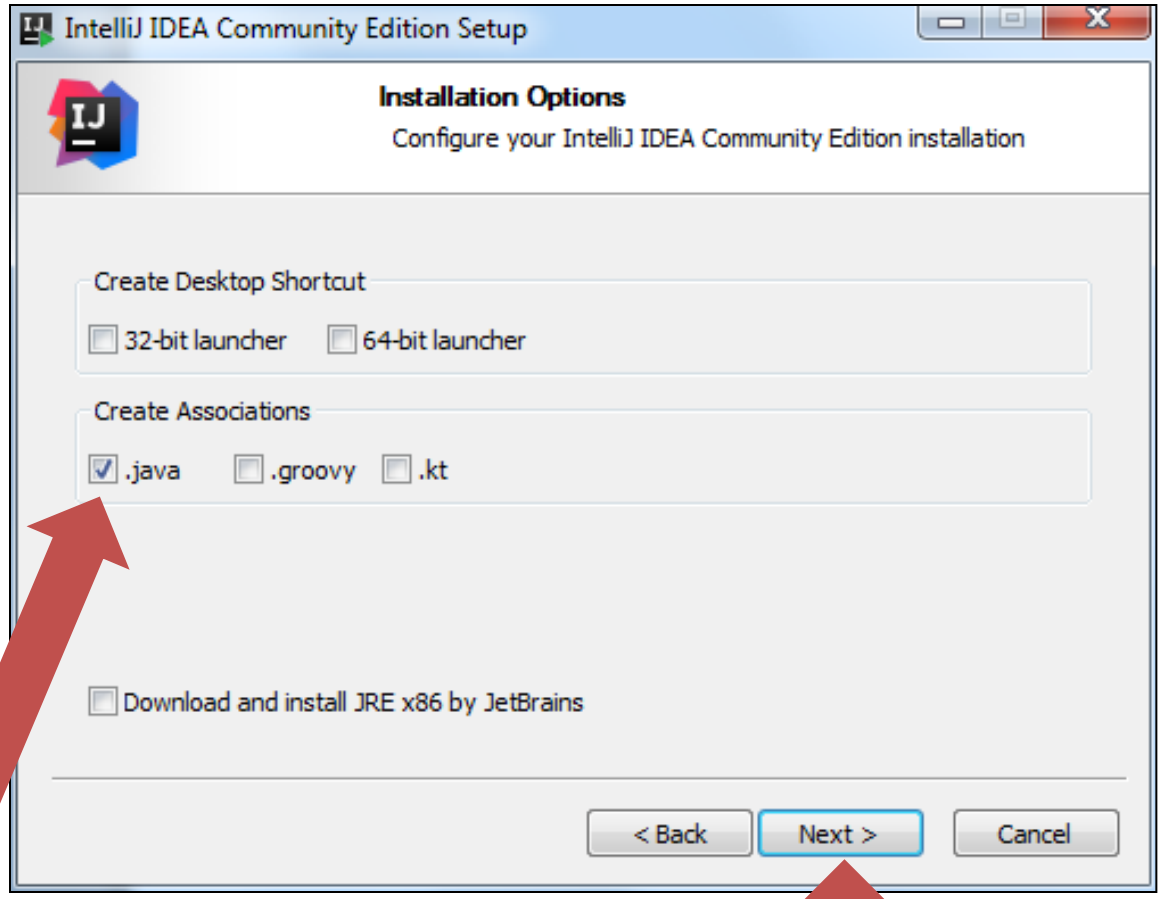
6

Click **Next** to continue…



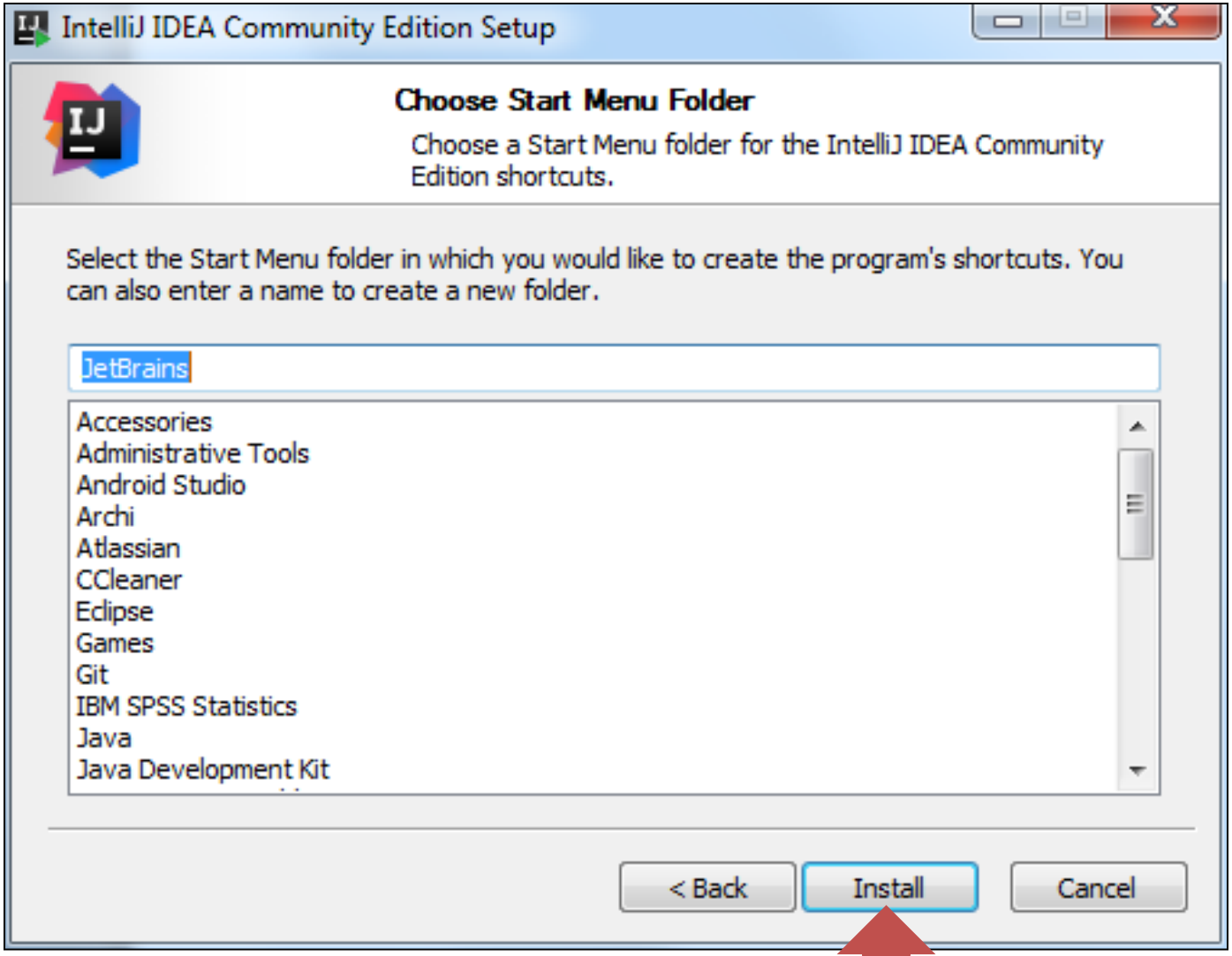
7

Accept the default destination folder
(you can change this if you prefer) and click **Next**.



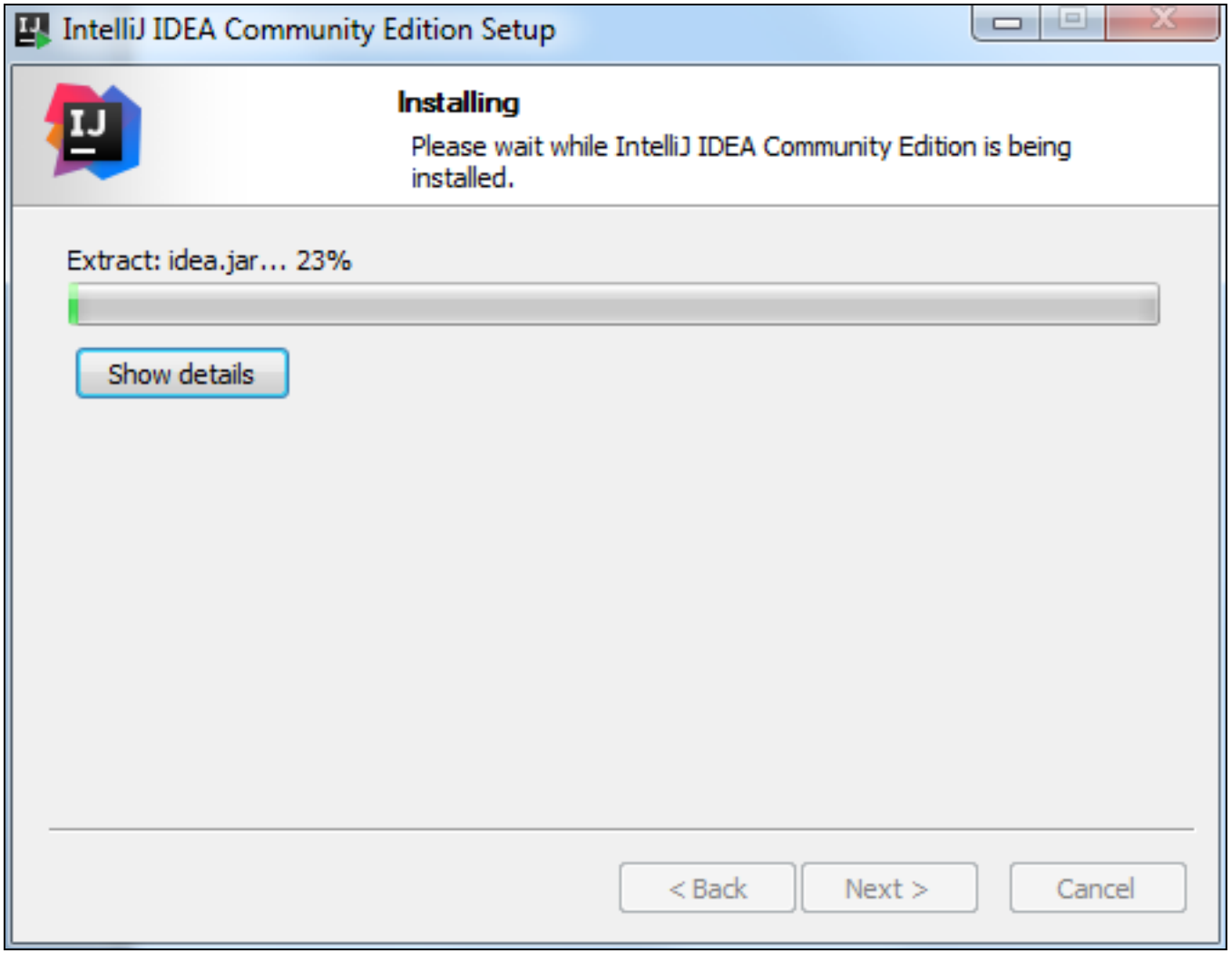
8

Tick the **.java** box to create a file association.
Click the **Next** button.



9

Click **Install** to continue…



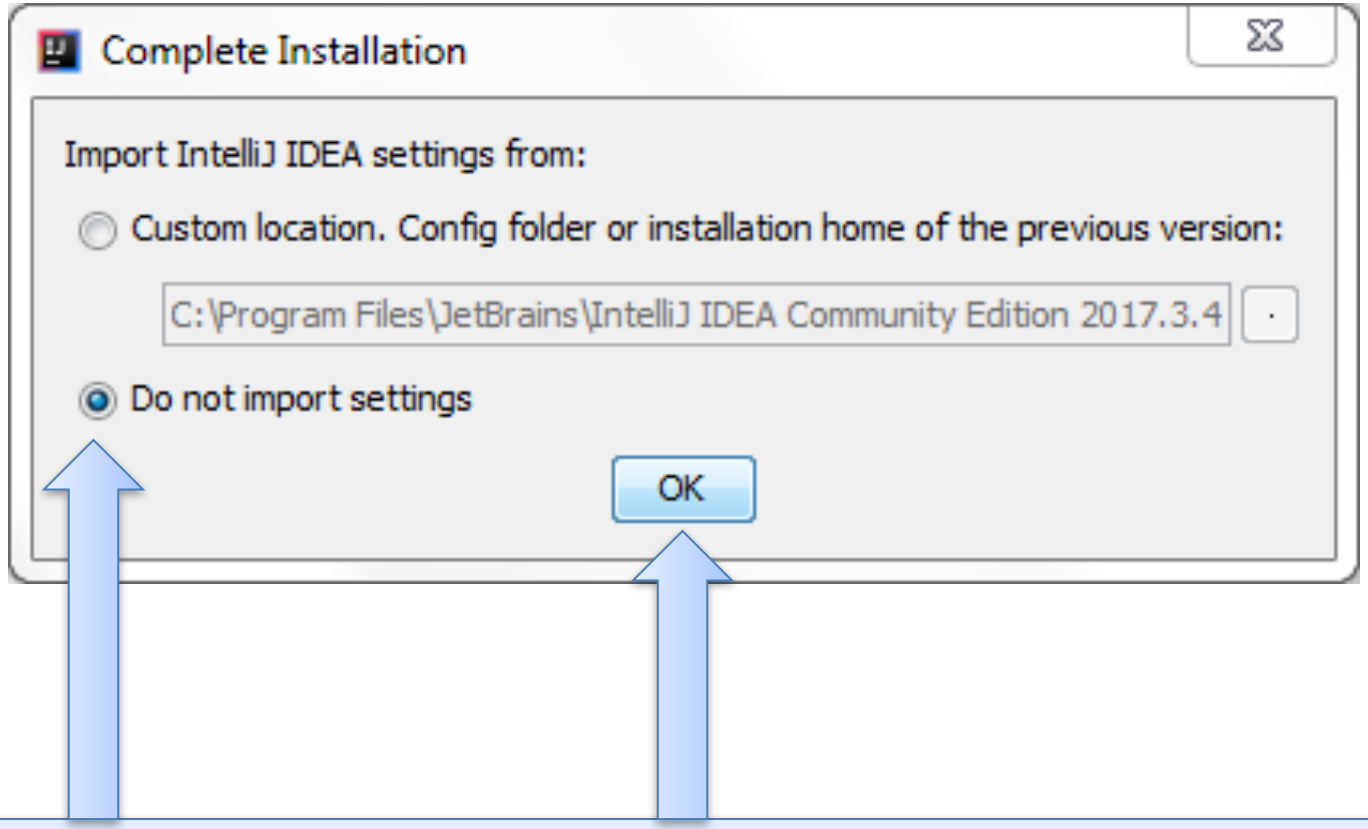
The installation is in progress…

11

The installation is done…click the **Finish** button

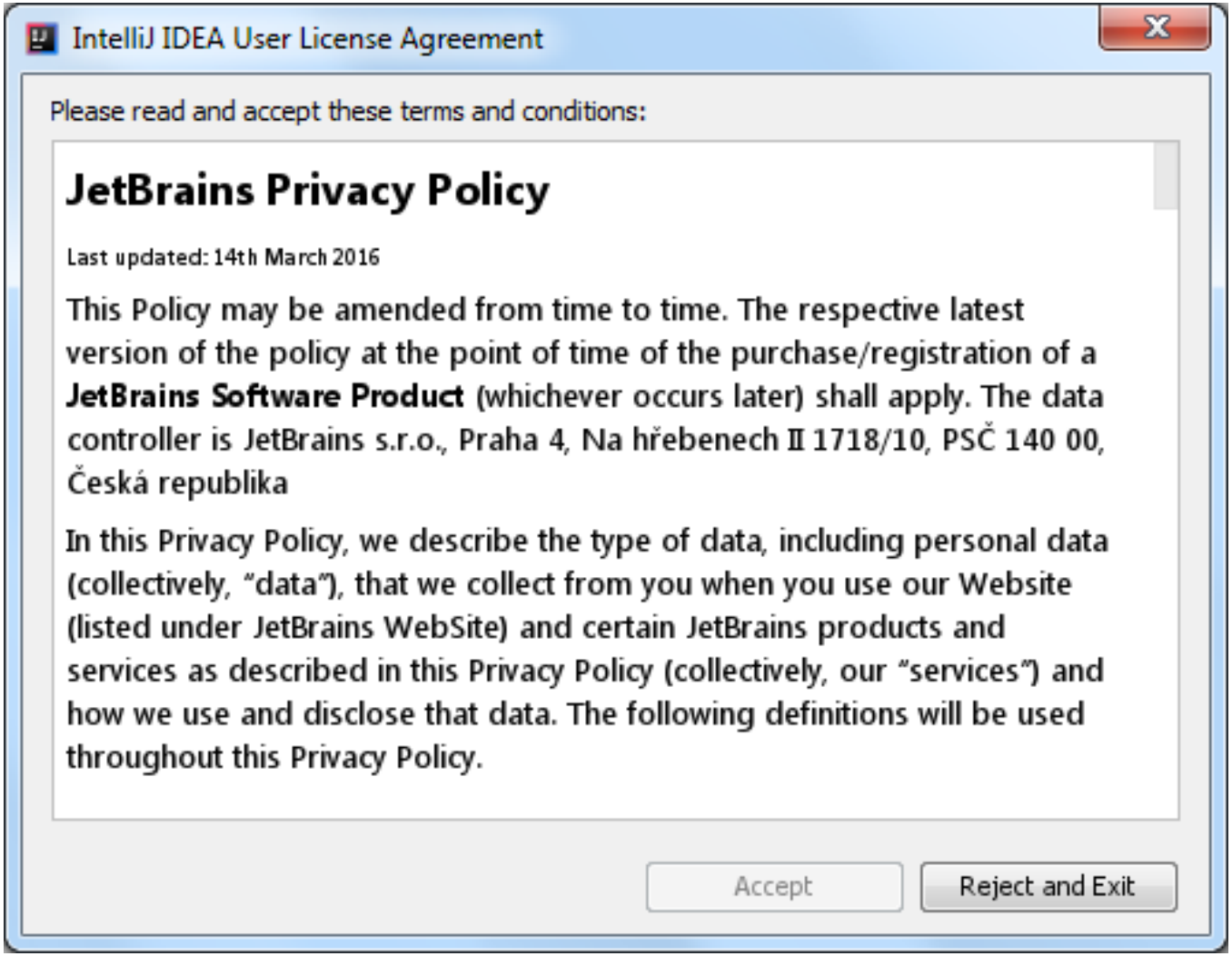
Now that you have installed the JDK and IntelliJ,
let's create and run our first project.

*We will print **HelloWorld!** to the console.*



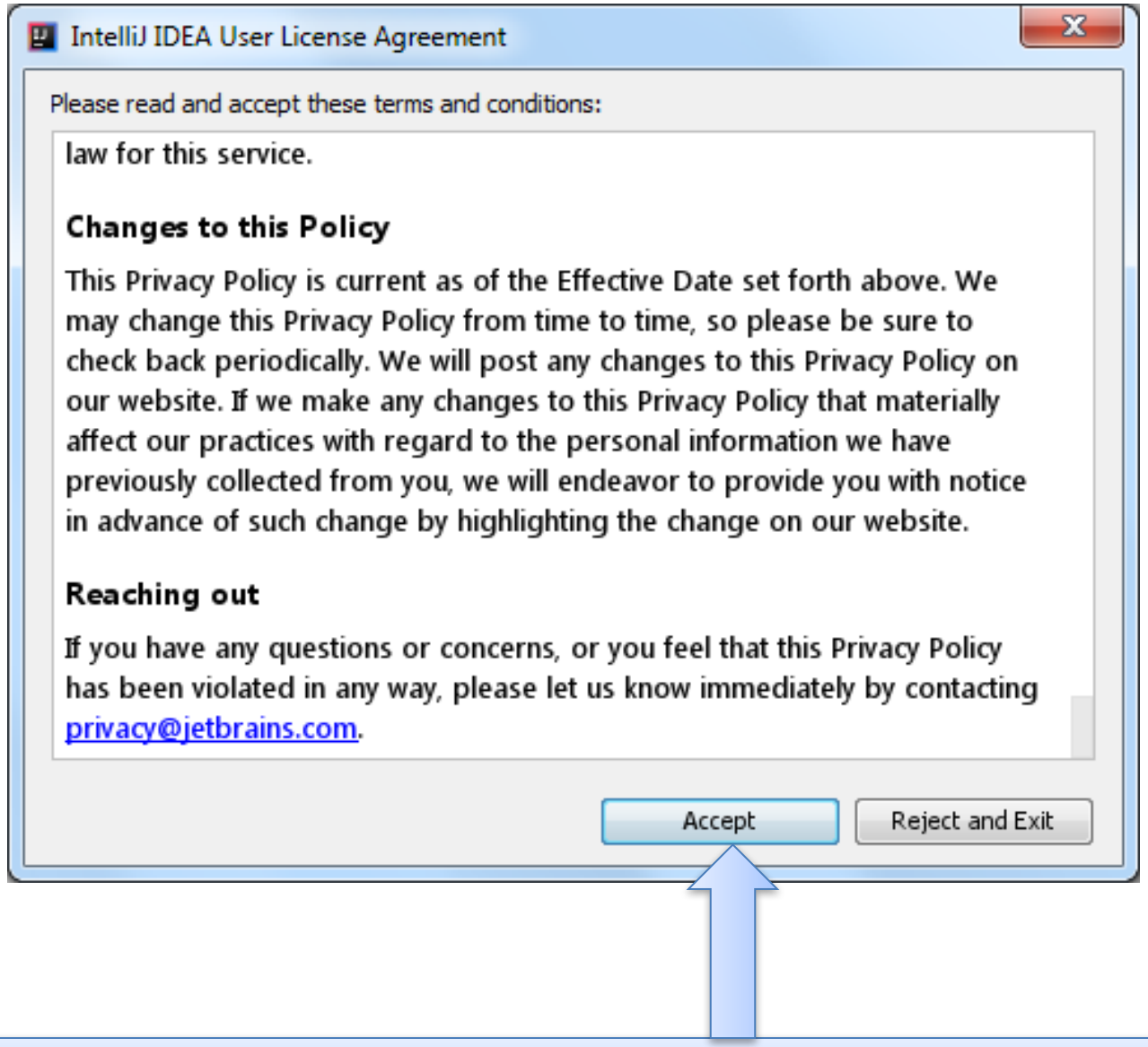
1

Appears when you first start IntelliJ.
Don't import the settings. Click OK.



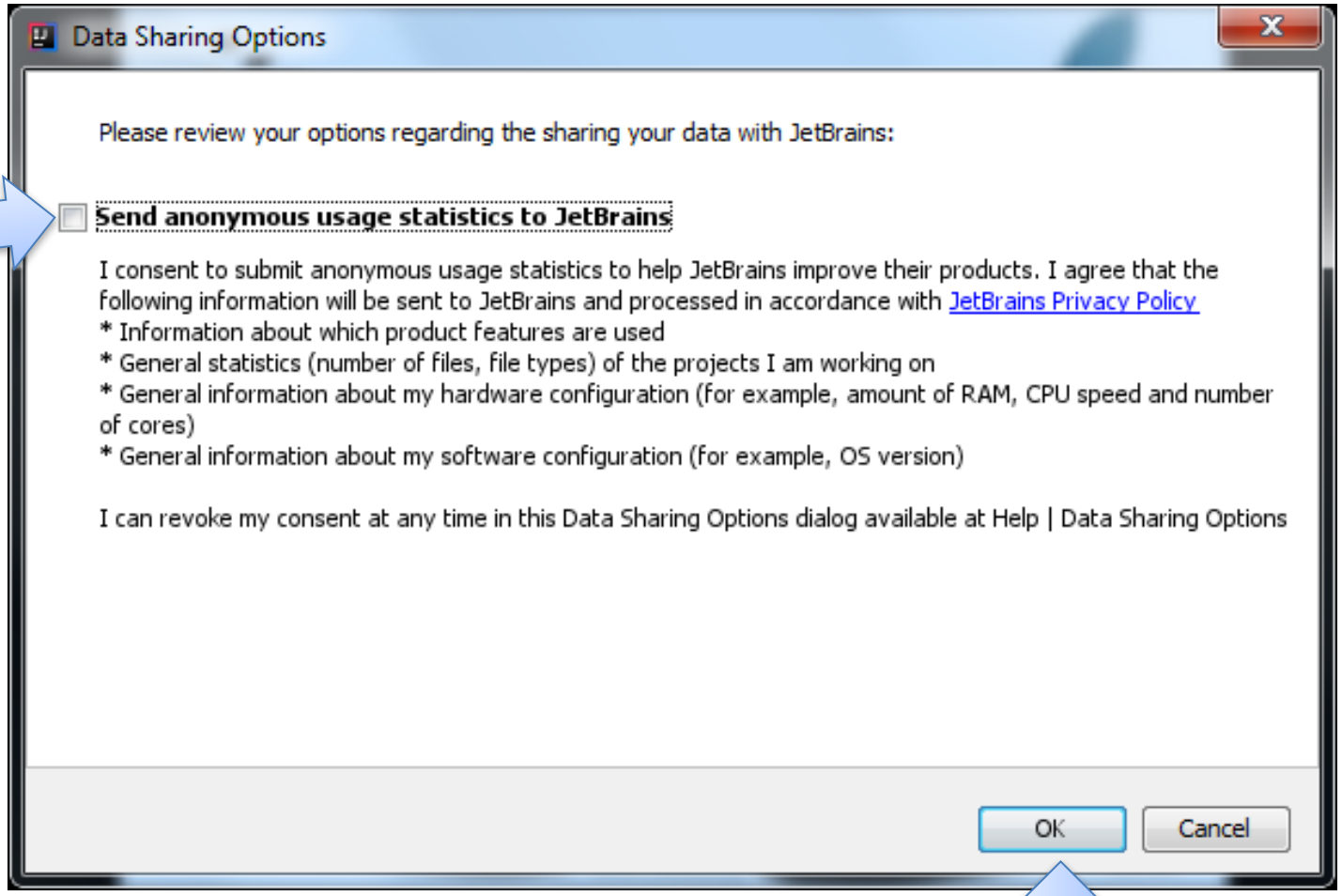
2

Scroll down to the end of the User Licence Agreement (ULA)…



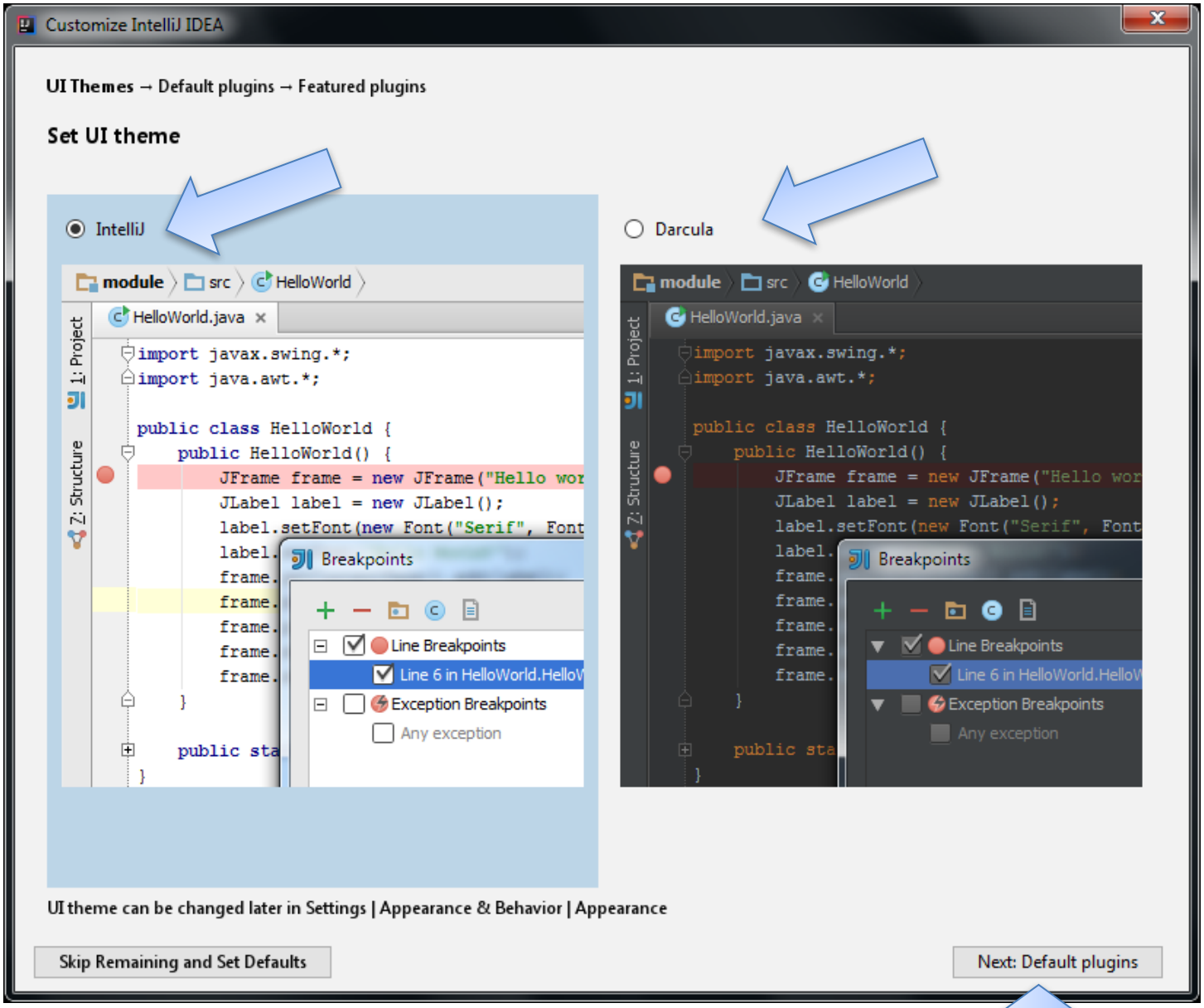
3

When the Accept button appears, click it.



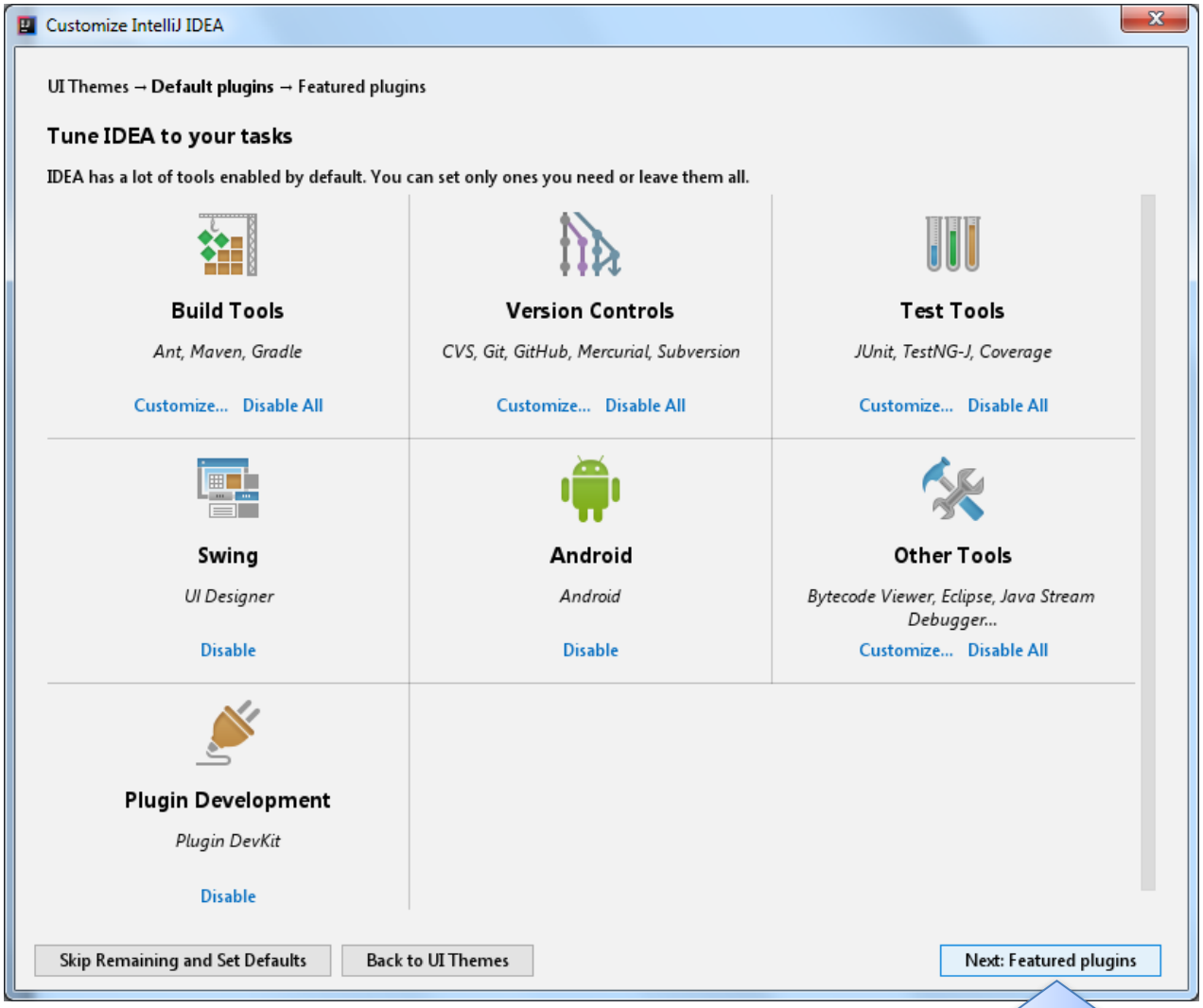
4

Decide if you want to share anonymous data with Jetbrains and click the OK button.



5

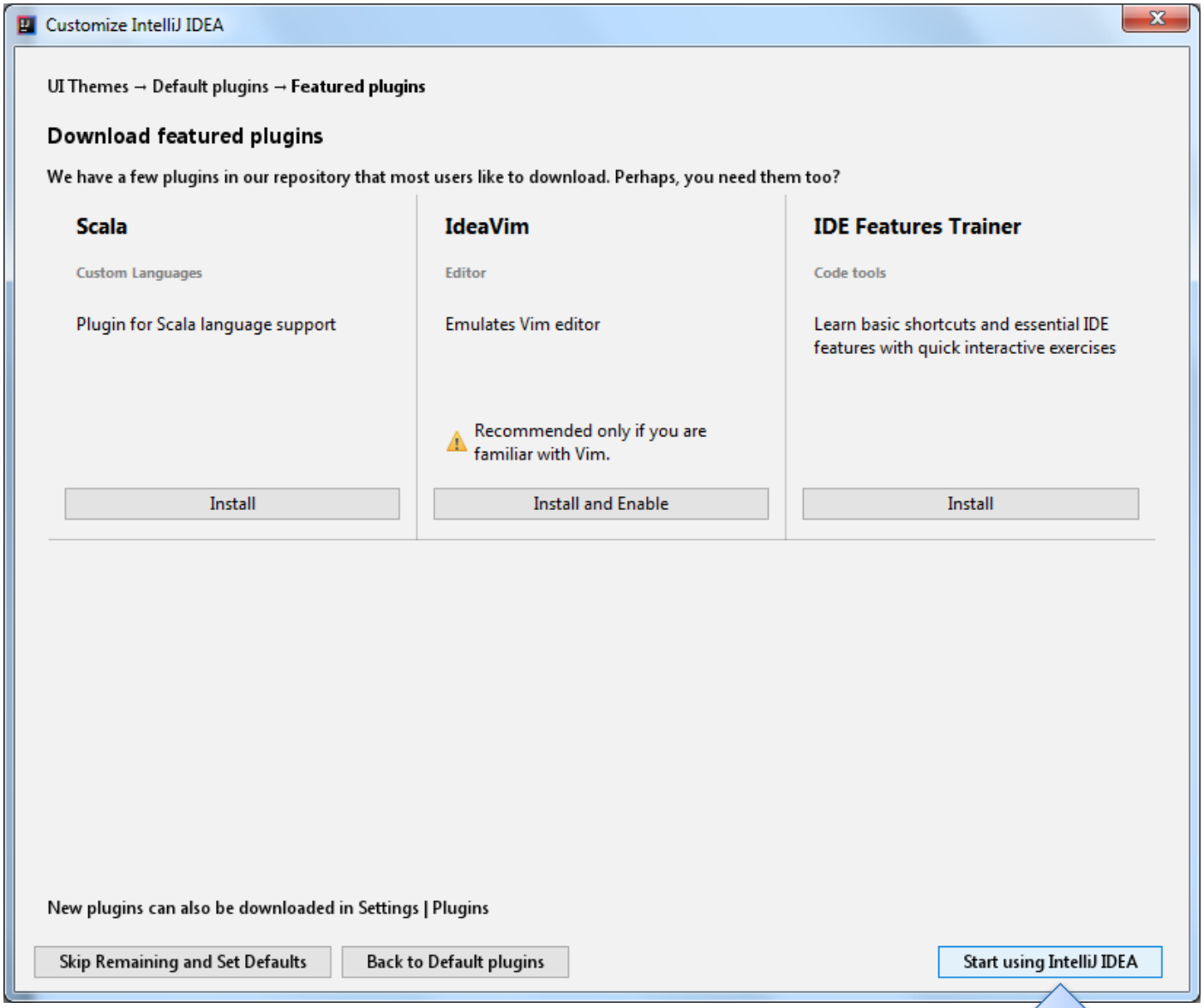
Choose your preferred theme and click Next.



6

You will come across a lot of these plugins, in some form or other, during the course.

At the moment, we won't be using them, so click **Next**.

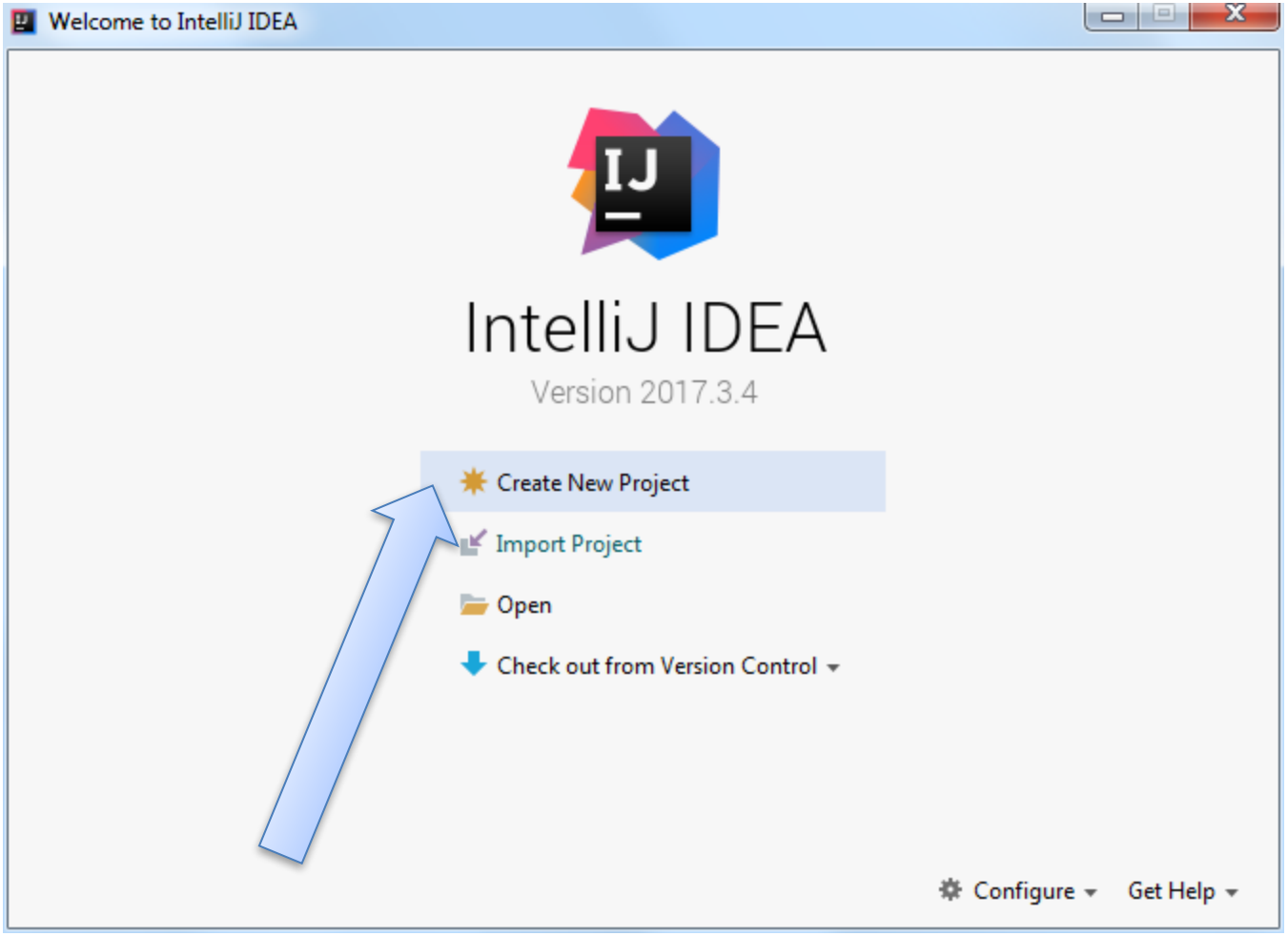


7

Same again here…we aren't using these plugins, so click Start…

8

You will see this splash screen and then…

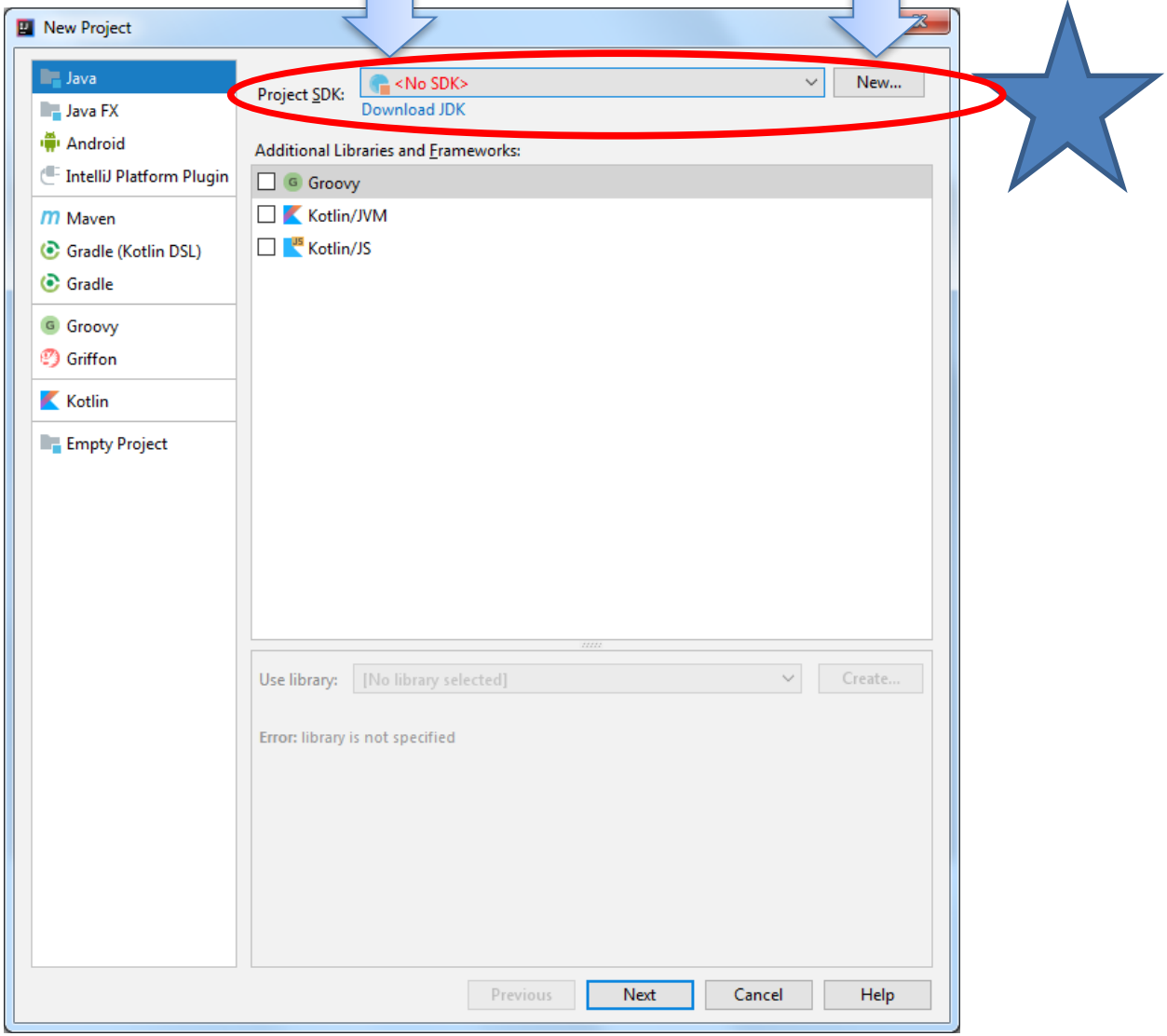


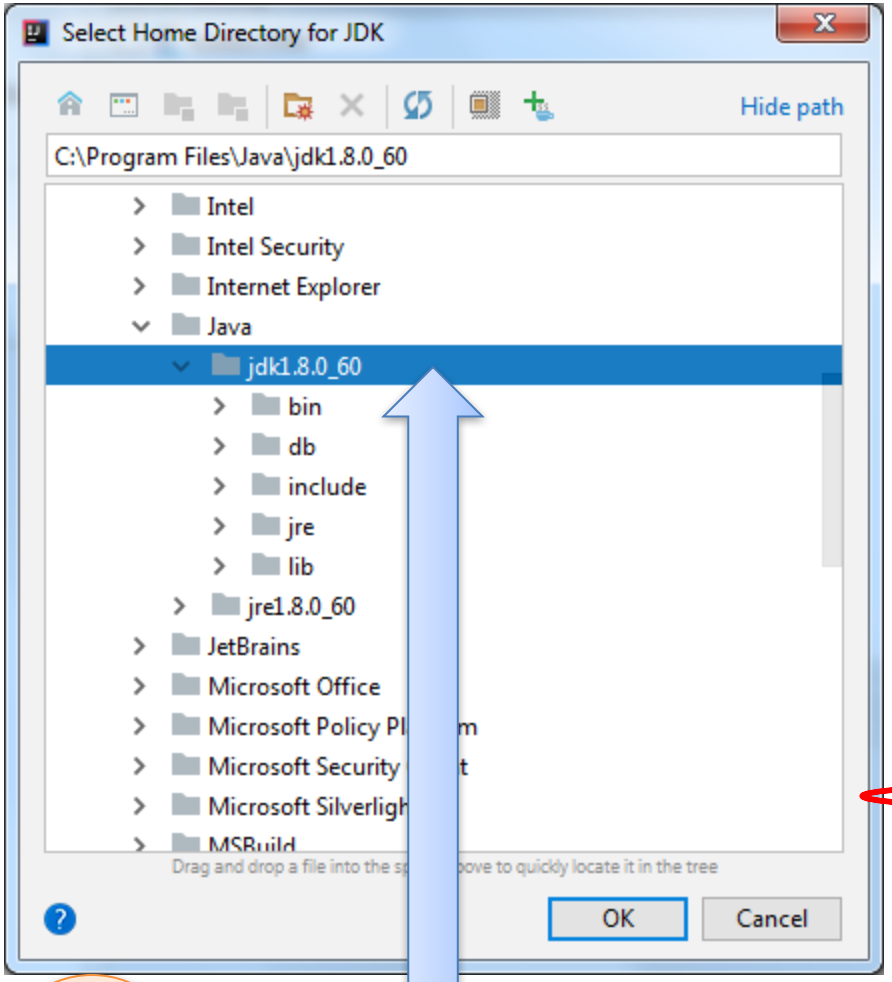
9

IntelliJ is now running…
click on the **Create New Project** link

10

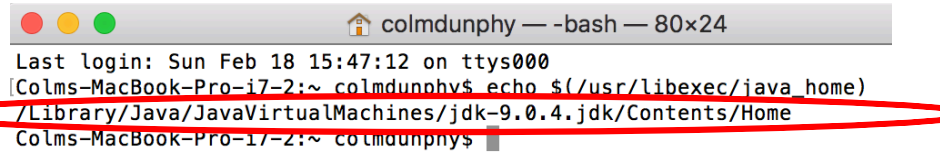
You may get this…no SDK. If so, click on the “New…” button





On OSX,
run a terminal window
and enter the following command

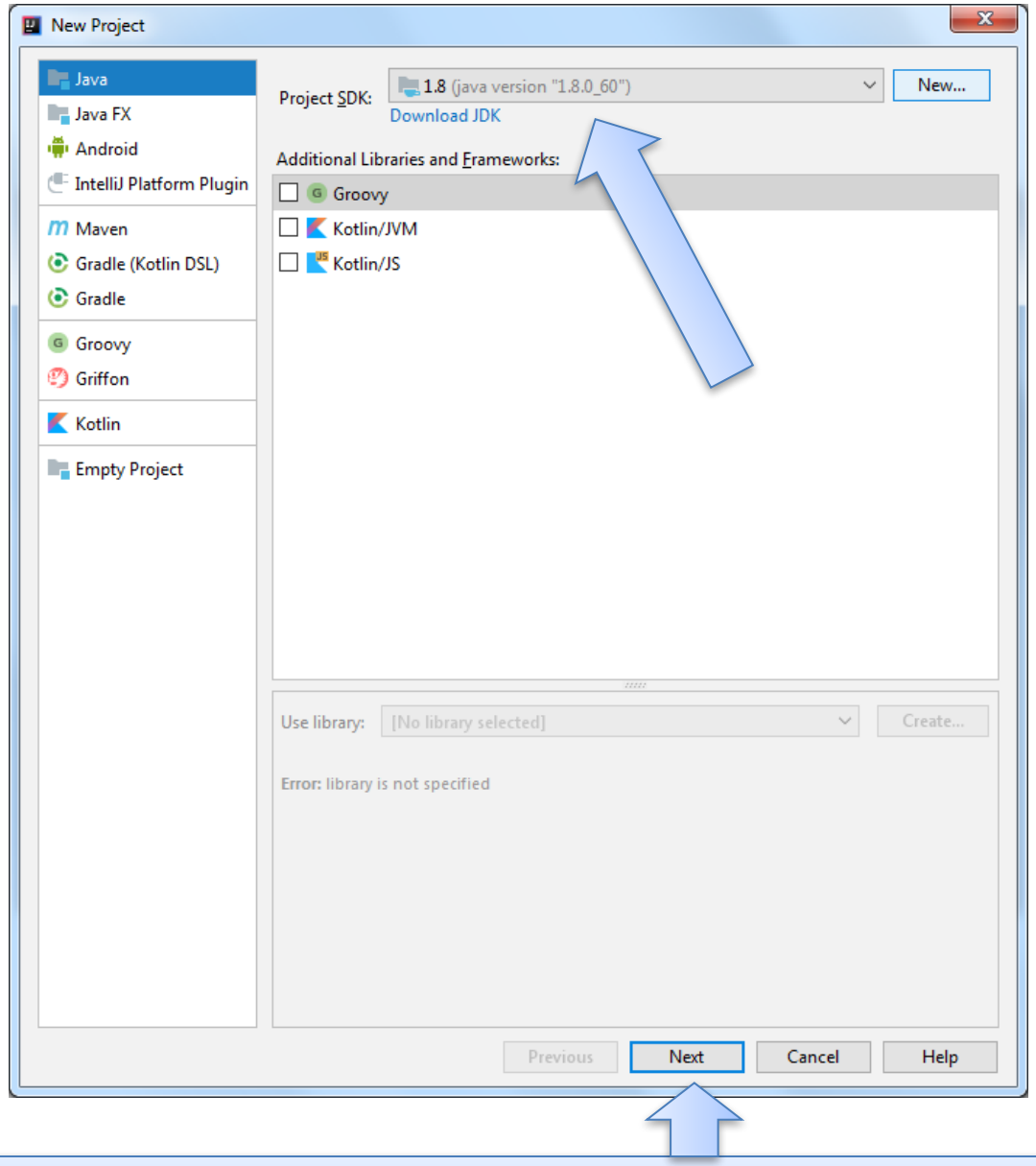
Echo $(/usr/libexec/java_home



(IntelliJ already comes with JDK v8 labelled 1.8)

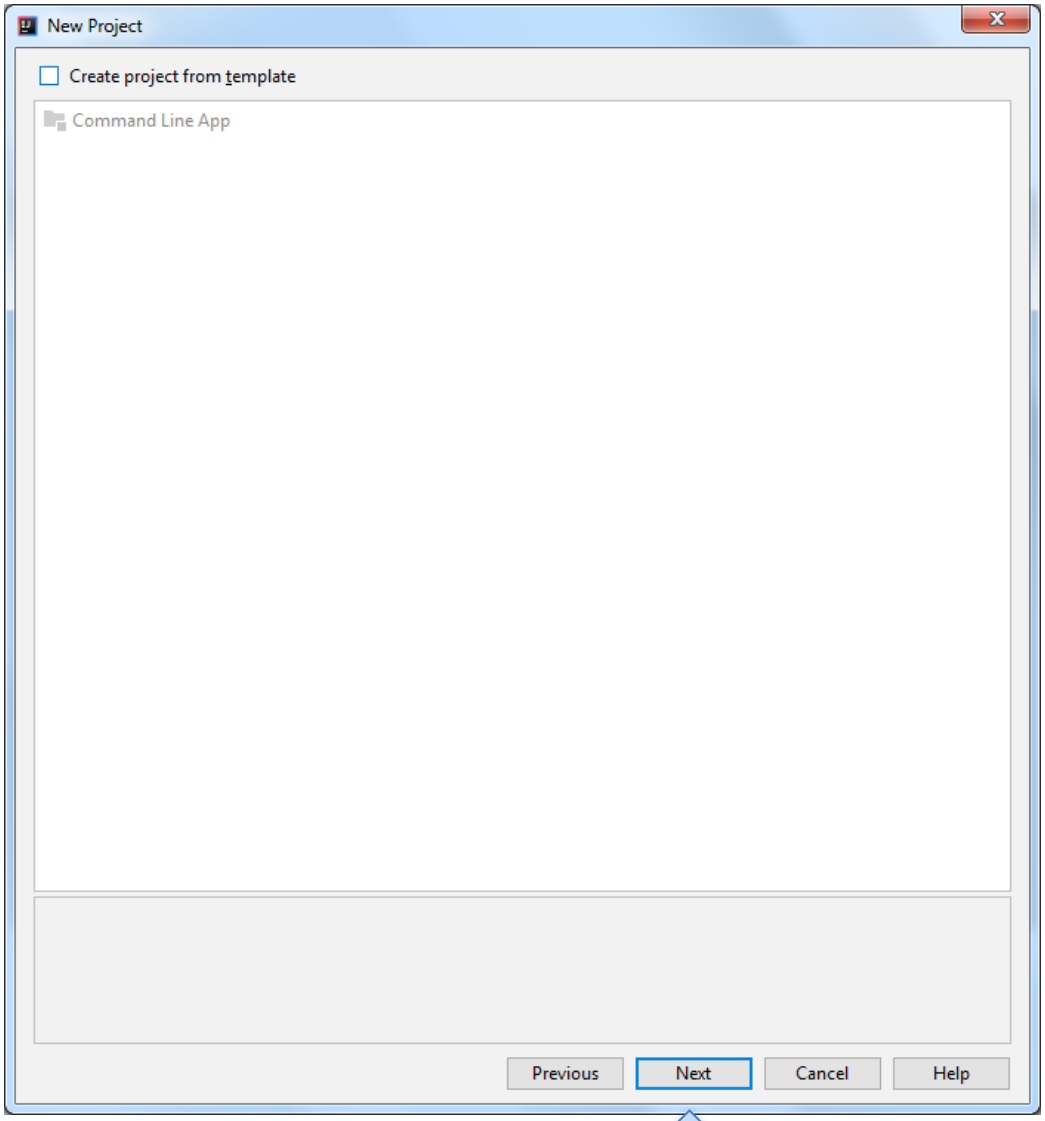
11

…and **locate** the version of java you previously installed. Click **Ok**



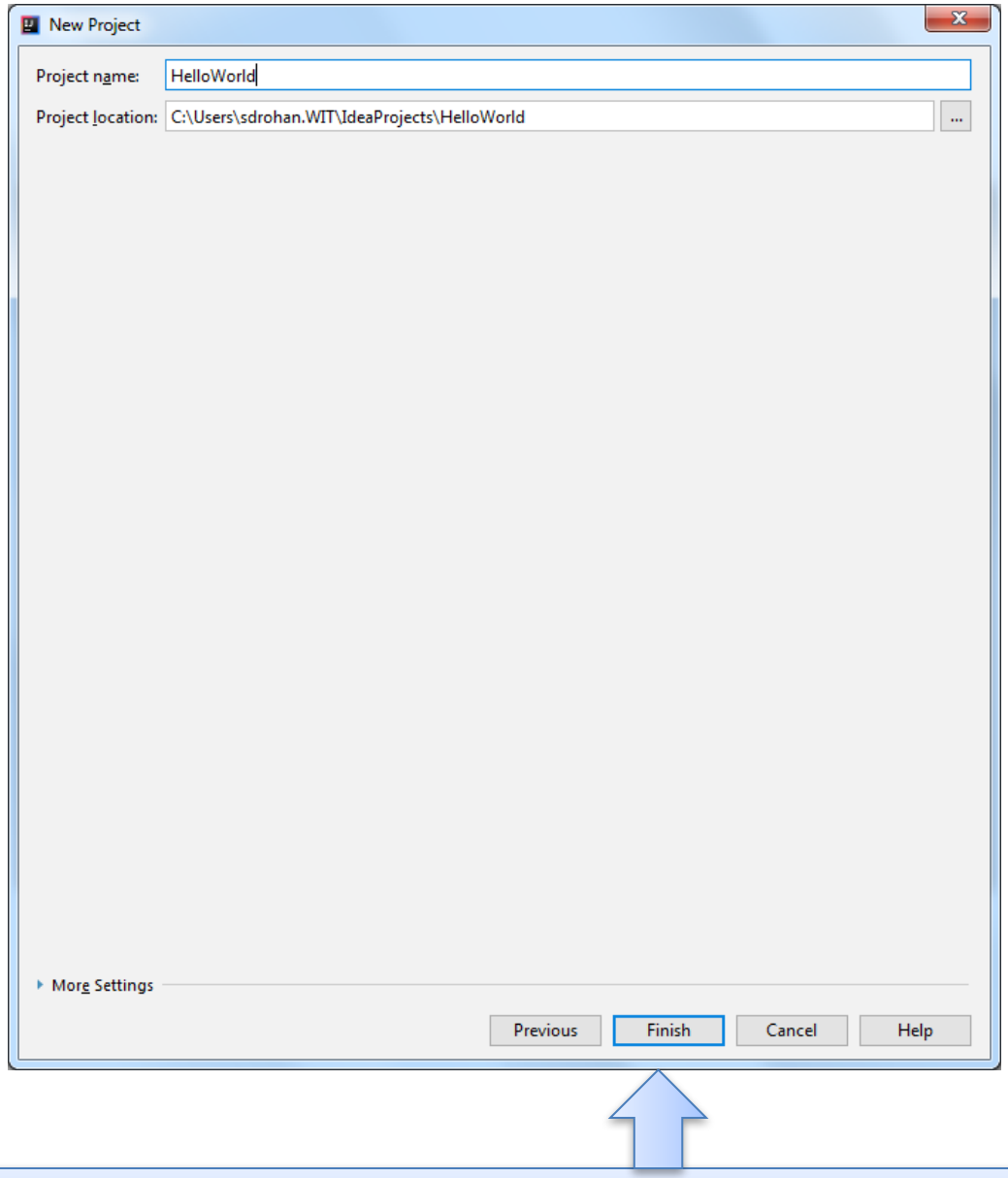
12

Now that Java is located, click Next.



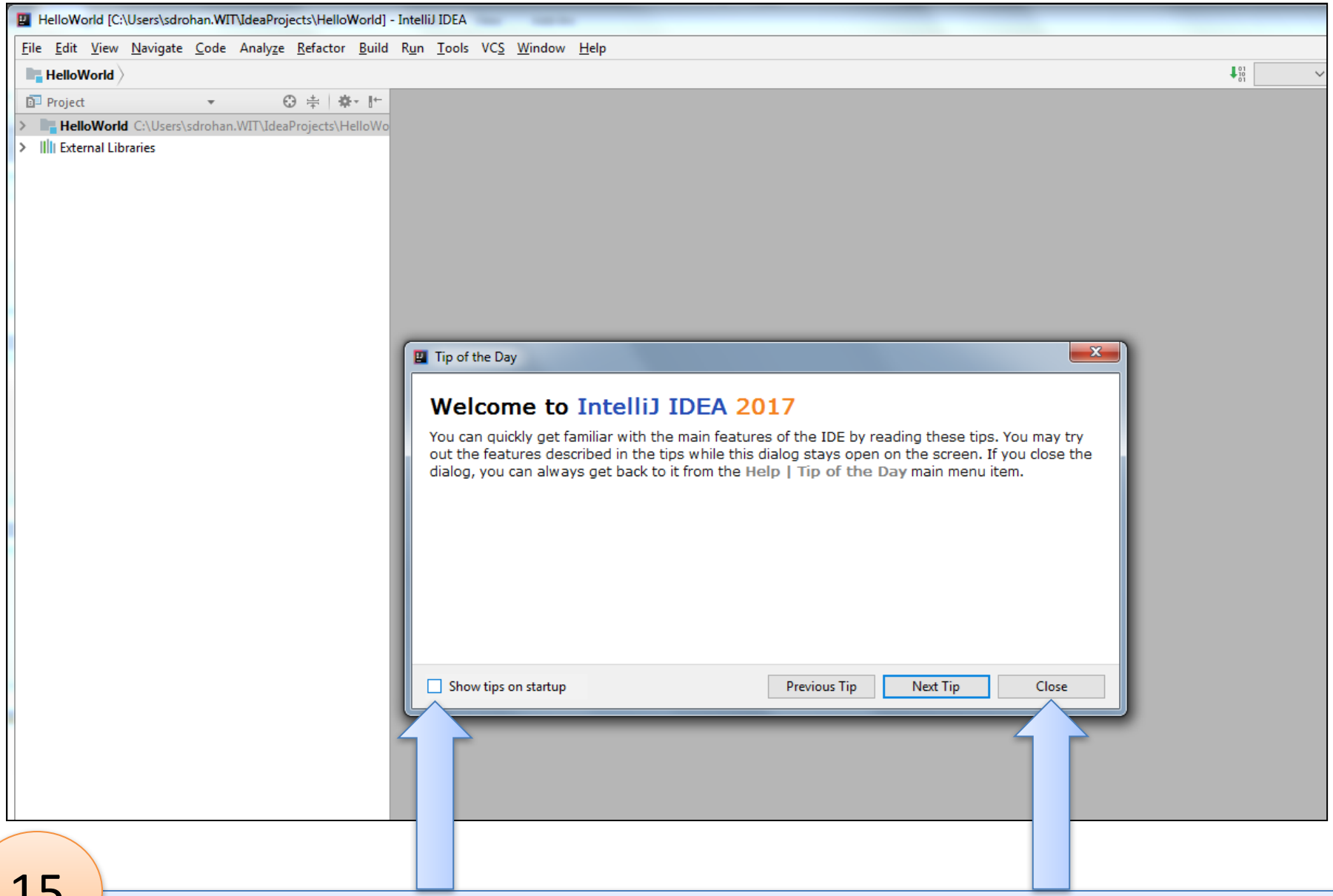
13

Accept the default settings by clicking Next



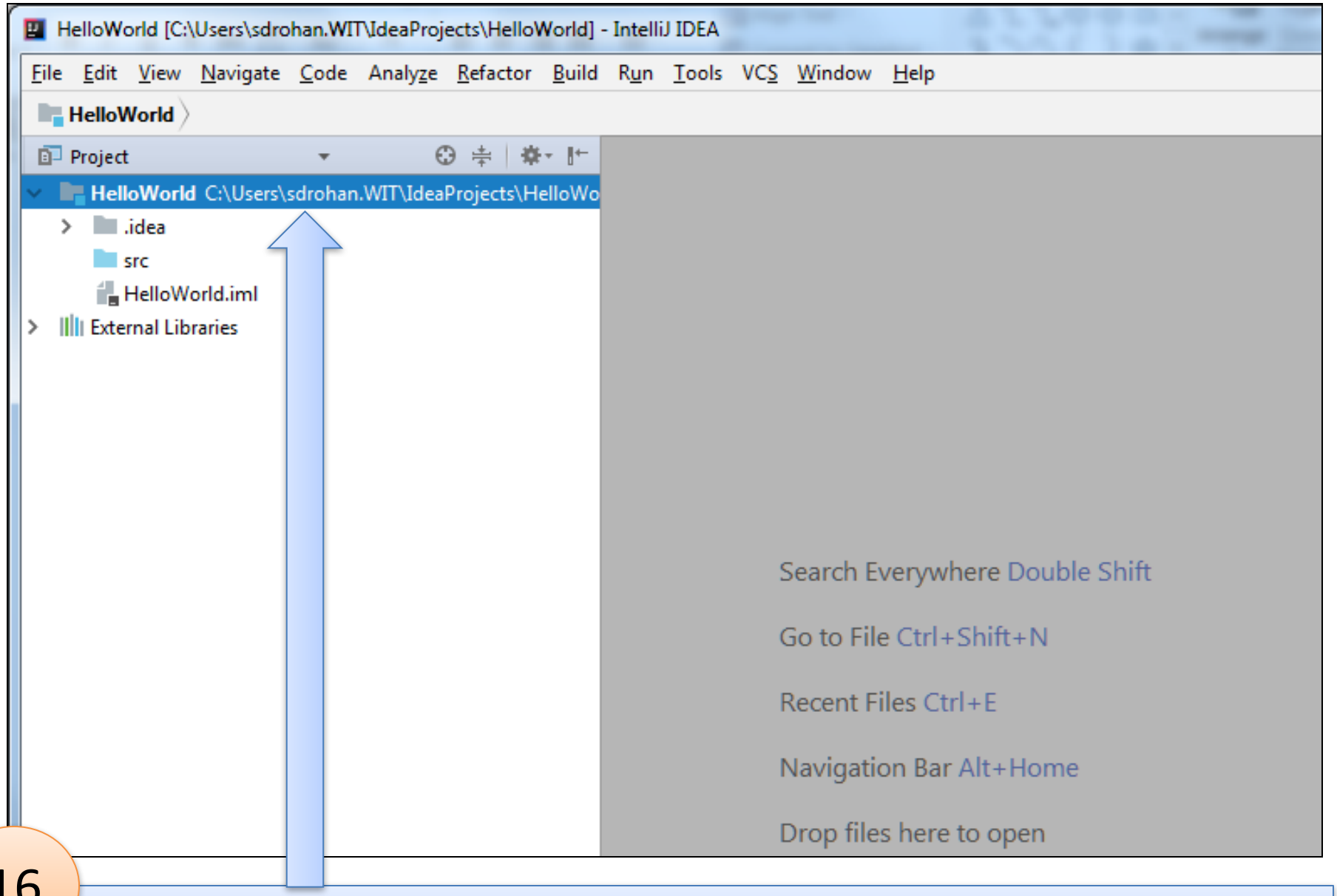
14

Enter project name (**HelloWorld**) and if you are happy with the default location, click Finish.



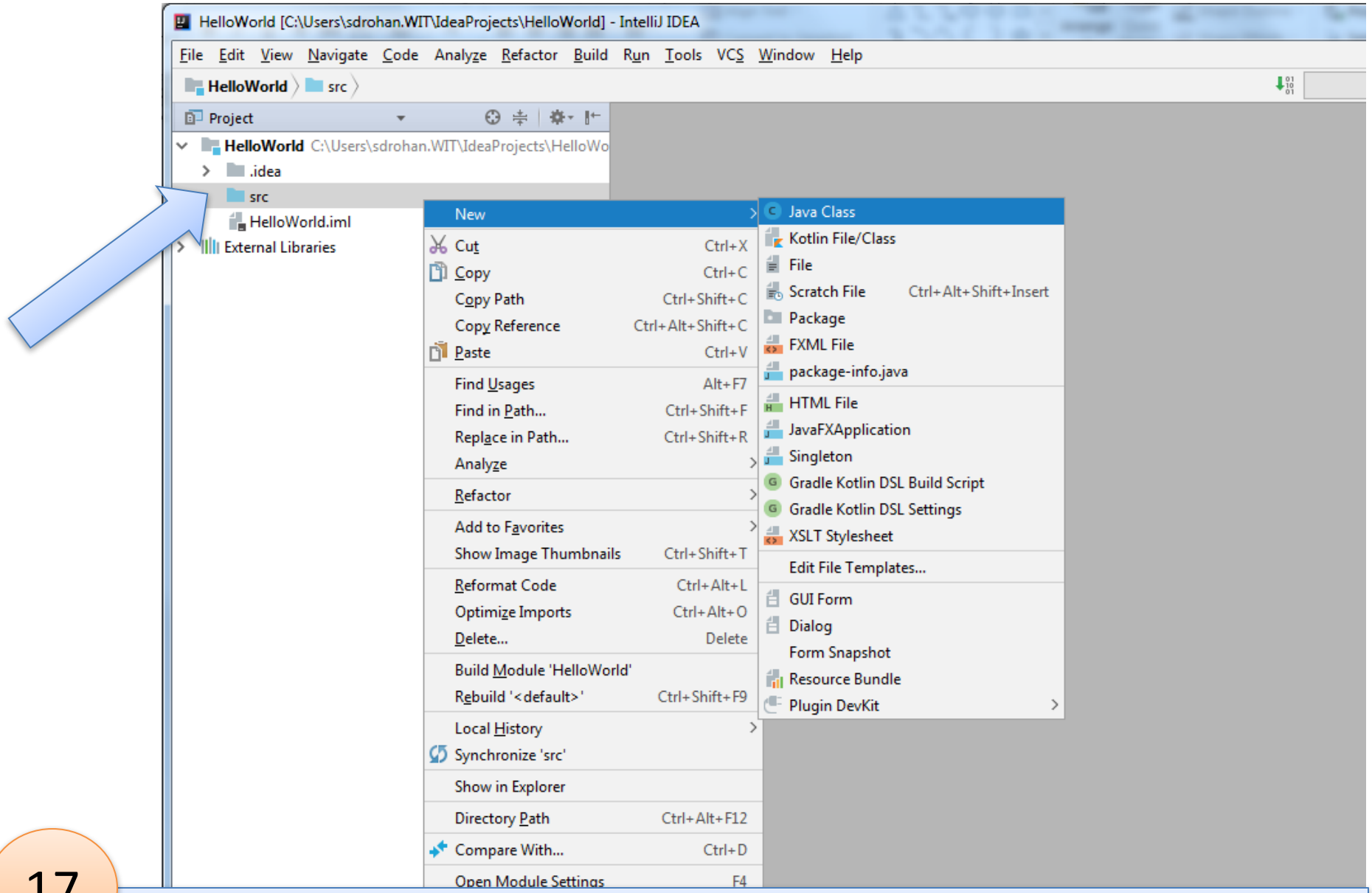
15

Decide whether you want to see tips each time you start IntelliJ. Then close the tip window.



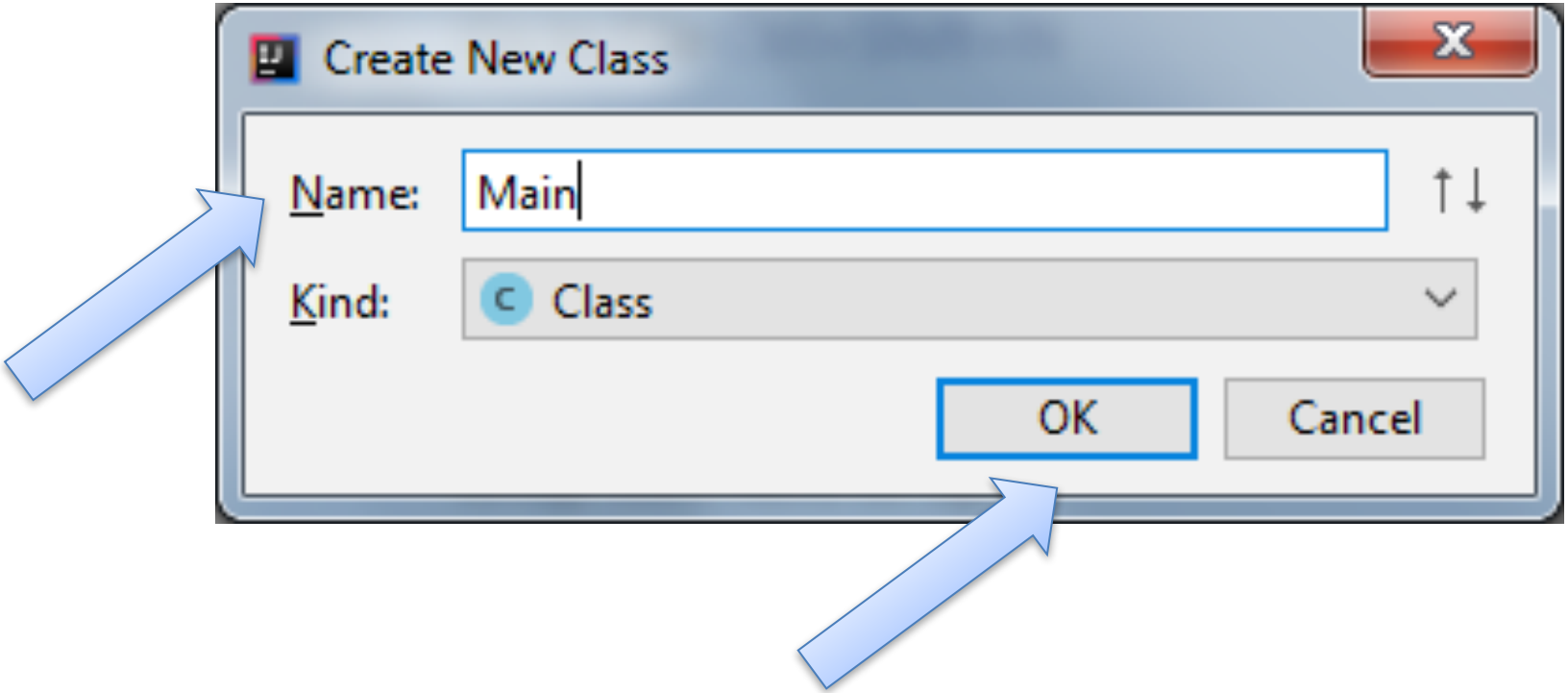
16

An empty HelloWorld project is created.



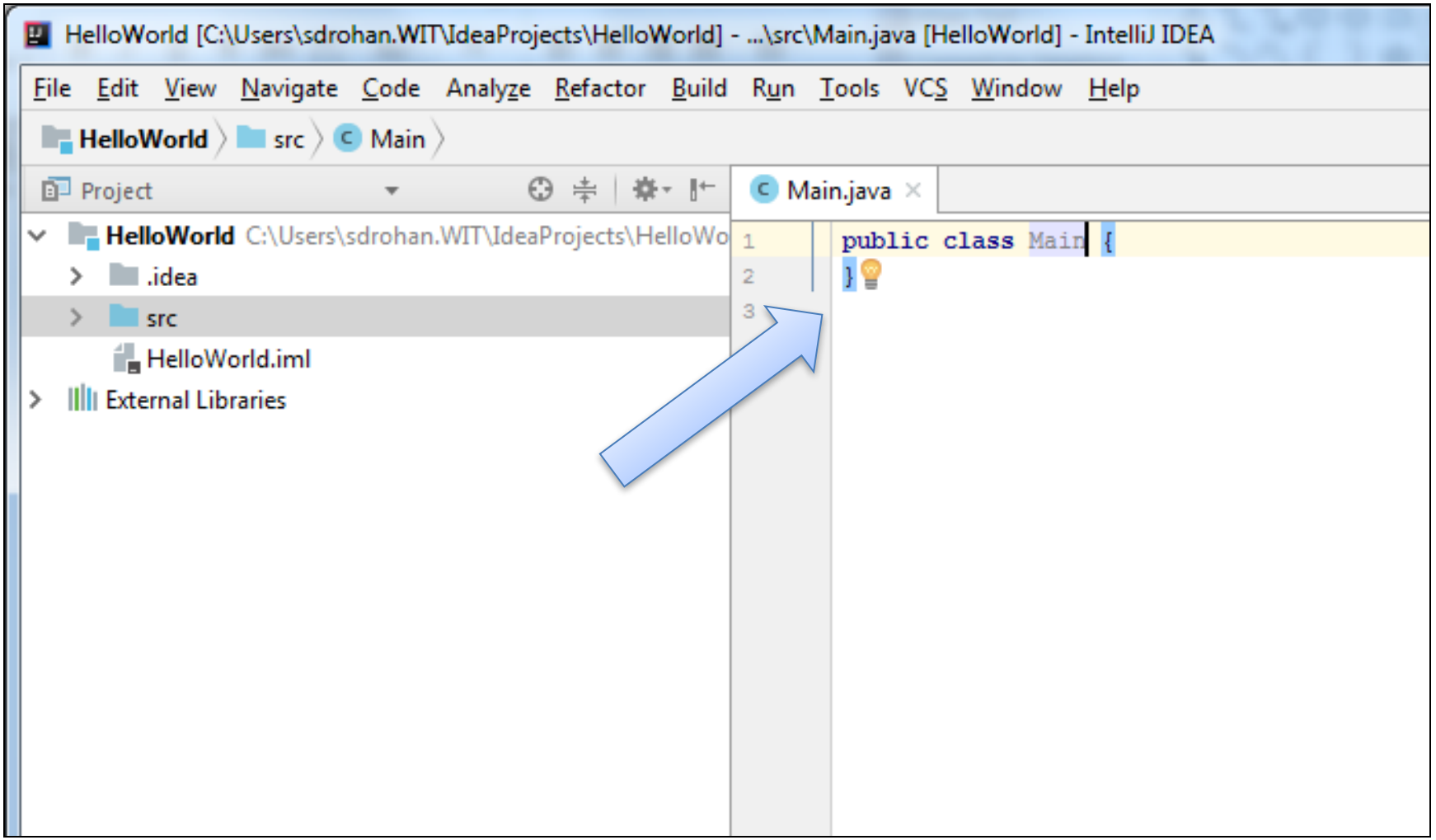
17

Right click on **src** folder….select **New → Java Class**



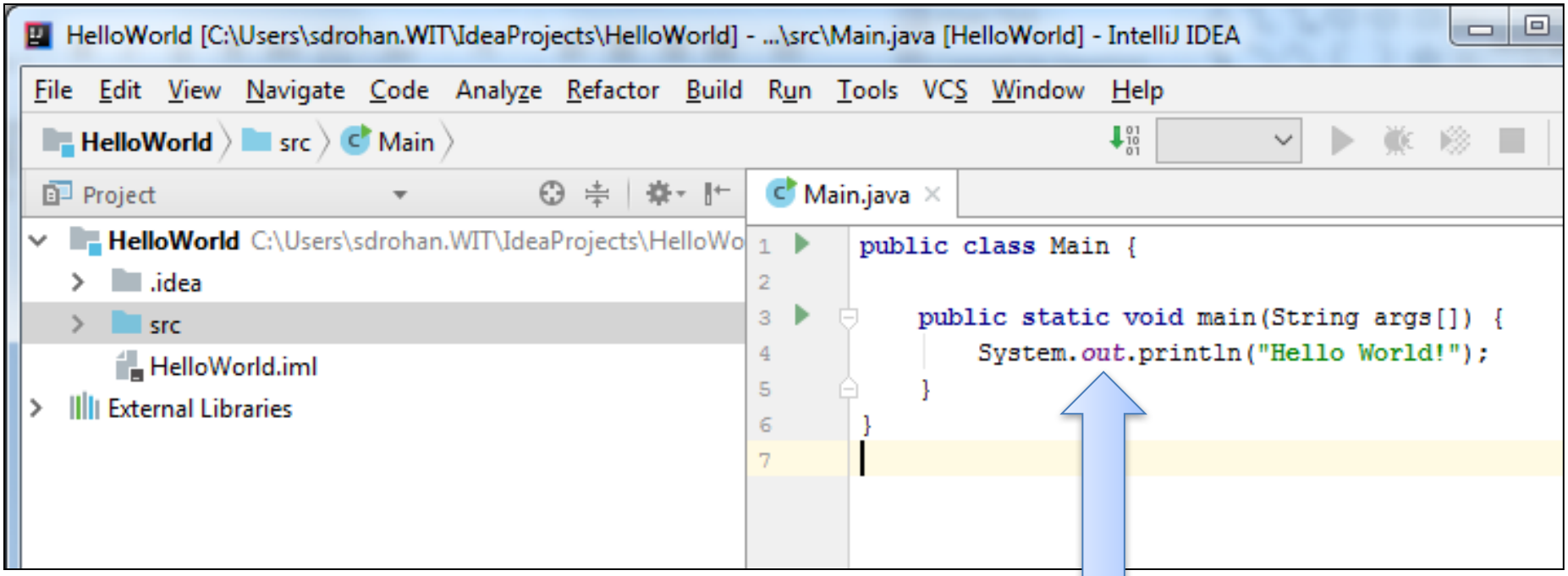
18

Enter the class name **Main** and click **OK**



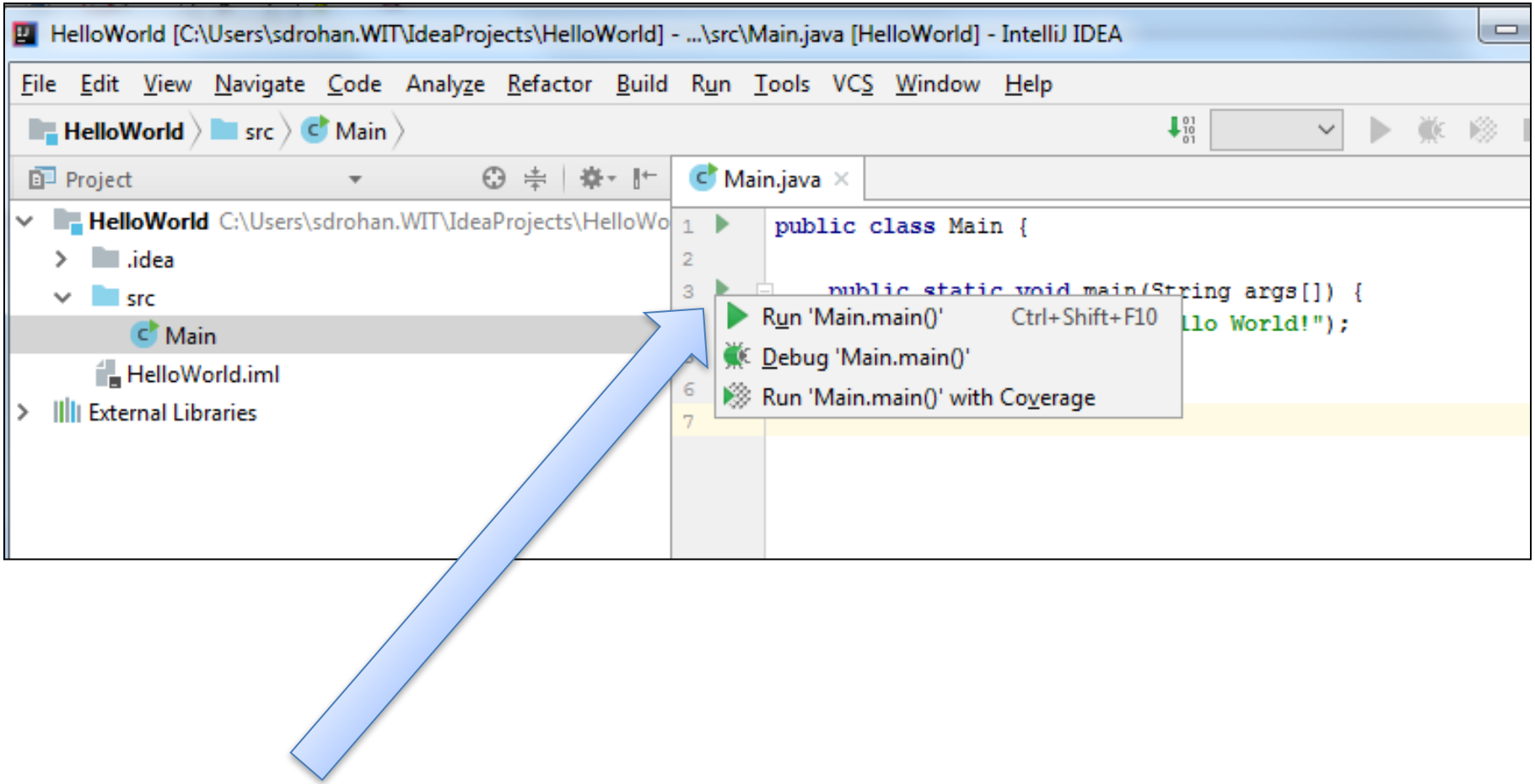
19

A new **Main** class has been created.



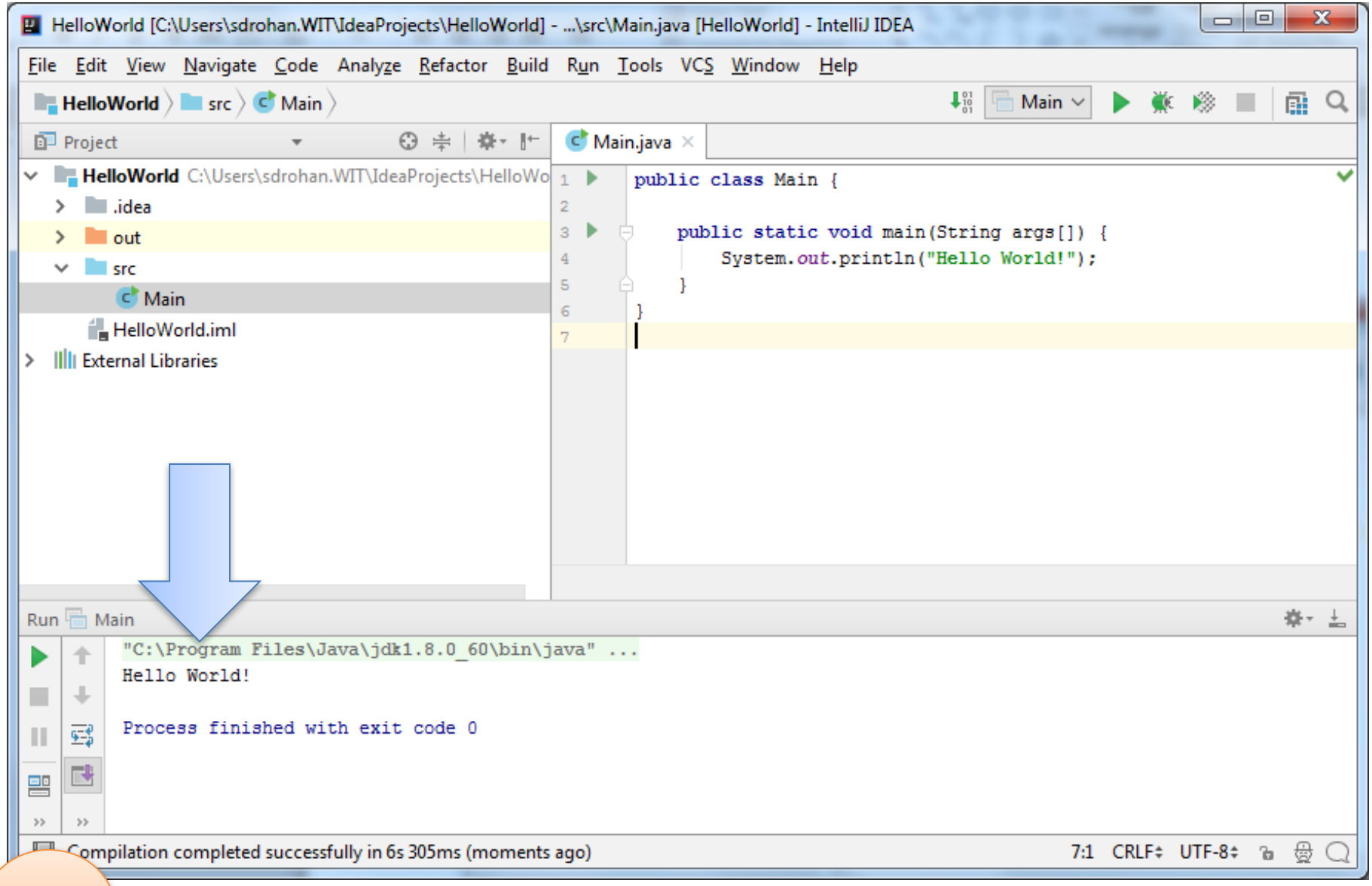
20

Enter this code into the **Main** class.



21

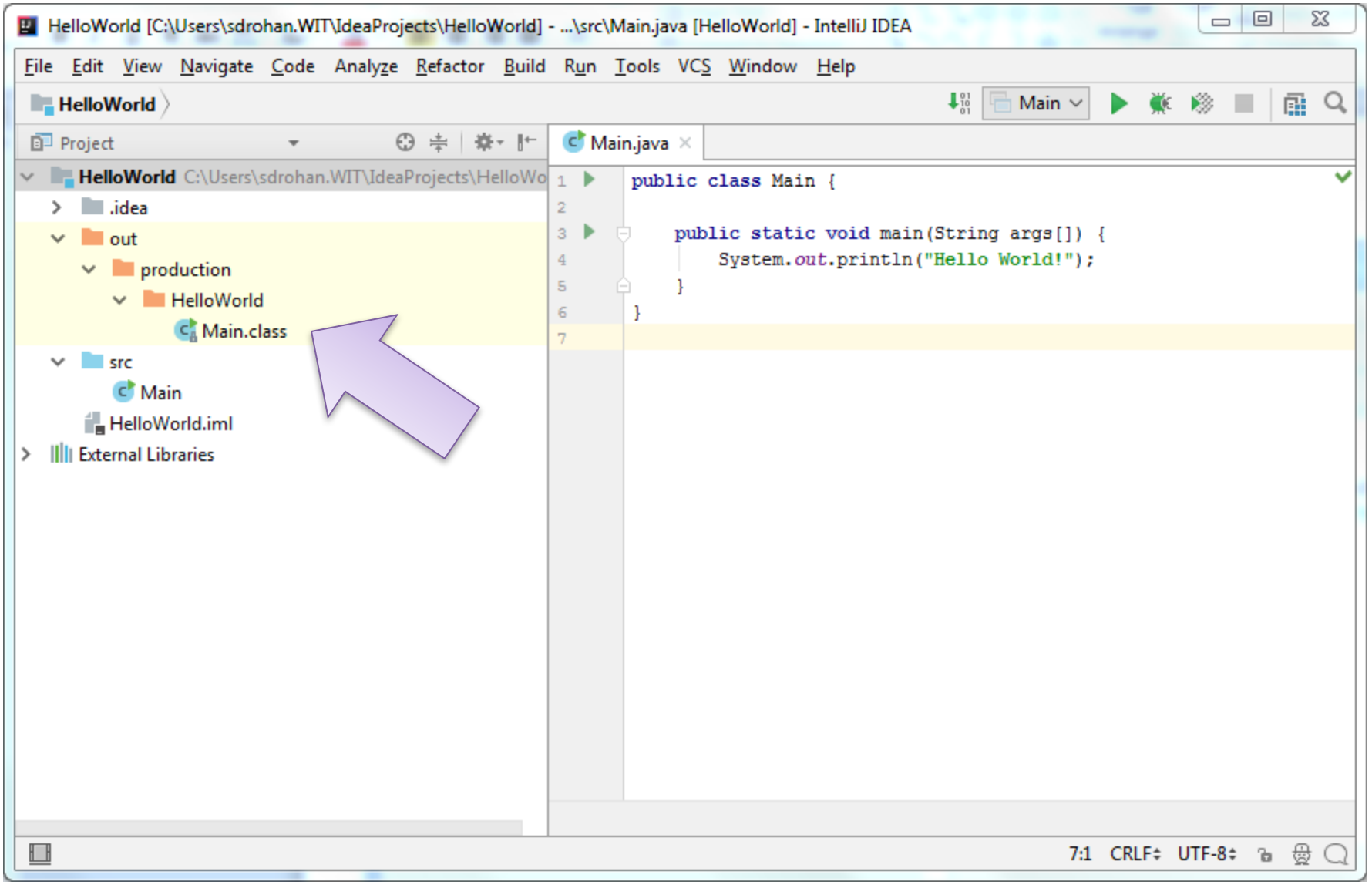
Click on the green triangle beside the main method.
Then select **Run 'Main.main()'**



22

Hello World! is printed to console.

Let's look at where our
Main.class
file lives…



Main.class is the **bytecode** of **Main.Java**

Questions?