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Java SE Development Kit 8 Downloads
Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.
The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.
See also:
Java Developer Newsletter: From your Oracle account, select Subscriptions, expand Technology, and subscribe to Java.
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Java Magazine
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Linux ARM 64 Hard Float ABI
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jdk-8u171-linux-arm64-vfp-hflt.tar.gz
Programming in Java – Laboratory
Jakub Długosz, Eng., Ph.D.
lab 1

JDK Latest Releases

- JDK is an acronym for Java Development Kit
- JDK 9 reached general availability on 2017-09-21
- JDK 10 reached general availability on 2018-03-20

Links:

http://openjdk.java.net/

http://jdk.java.net/10/

http://openjdk.java.net/projects/jdk/10/ – JDK 10 new features

http://openjdk.java.net/projects/jdk9/ – JDK 9 new features

https://docs.oracle.com/javase/8/docs/

https://docs.oracle.com/javase/10/index.html

Java Acronyms

- JDK –Java Development Kit
- JRE – Java Runtime Environment – sandbox for Java i.e. a place where Java applications are run

  | Java has portable runtime environment |
- IDE – Integrated Development Environment

  | Eclipse, IntelliJ |
- JSR – Java Specification Request
- JSR 376 – Java Platform Module System – Jigsaw

  | JEP 200 in JDK 9 – The Modular JDK |
- JEP – JDK Enhancement Proposal
- REPL – Read-Evaluate-Print-Loop – for interactive coding

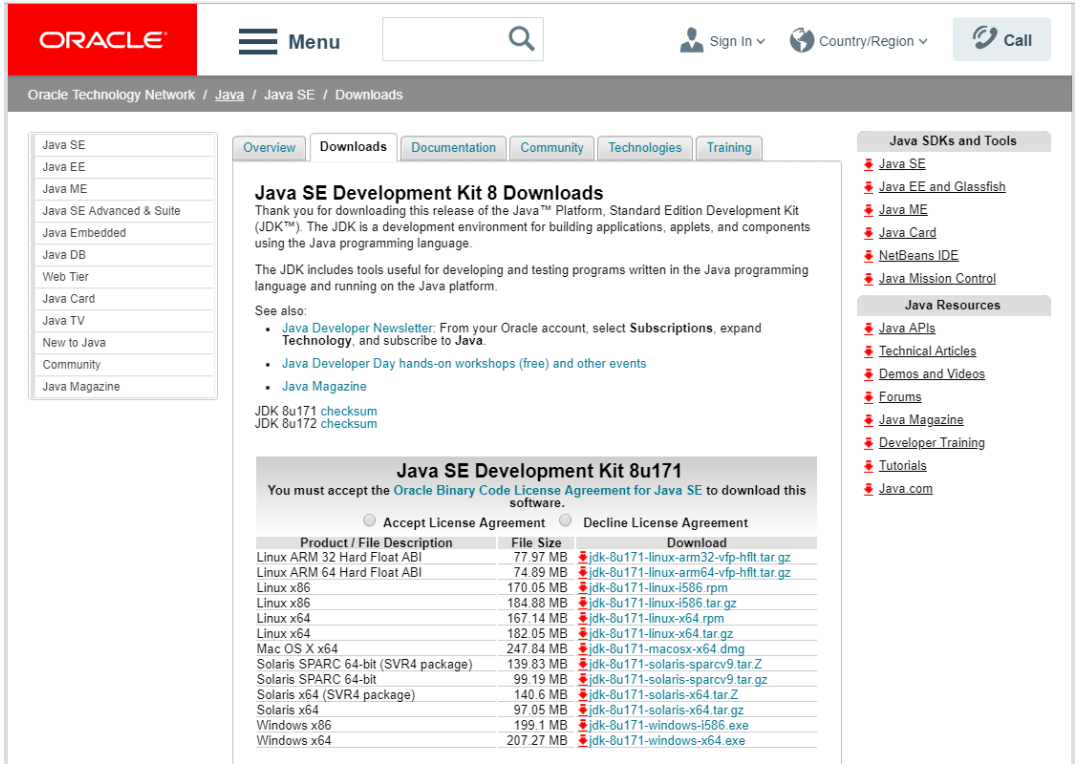
  | JEP 222 in JDK 9 – jshell: The Java Shell (Read-Eval-Print Loop) |
- PID – Process ID

Installing Java JDK pt. 1

type in Google: *JDK download*

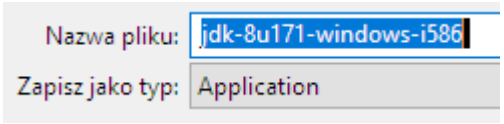
http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

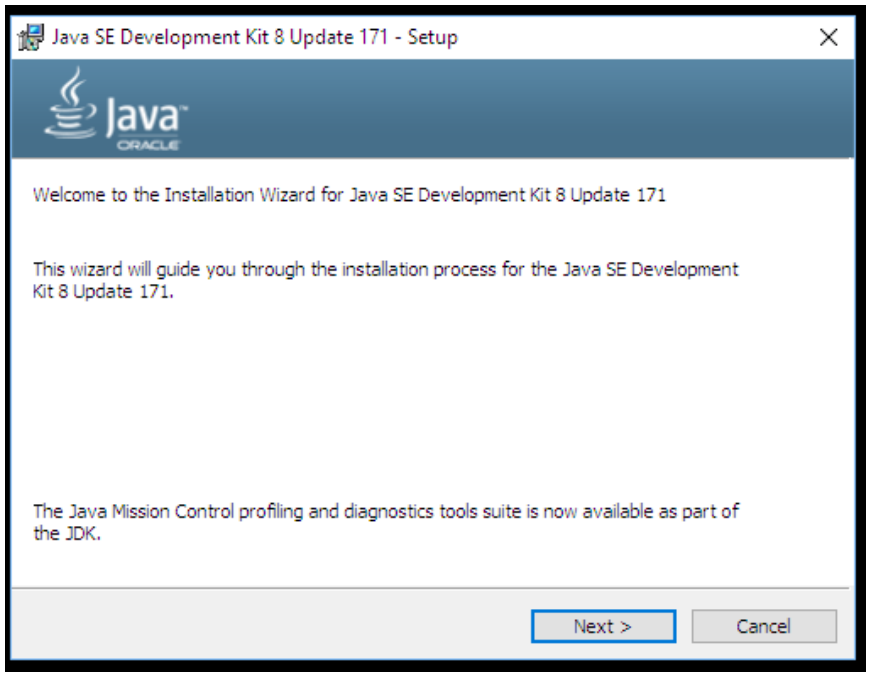
http://www.oracle.com/technetwork/java/javase/downloads/jdk10-downloads-4416644.html

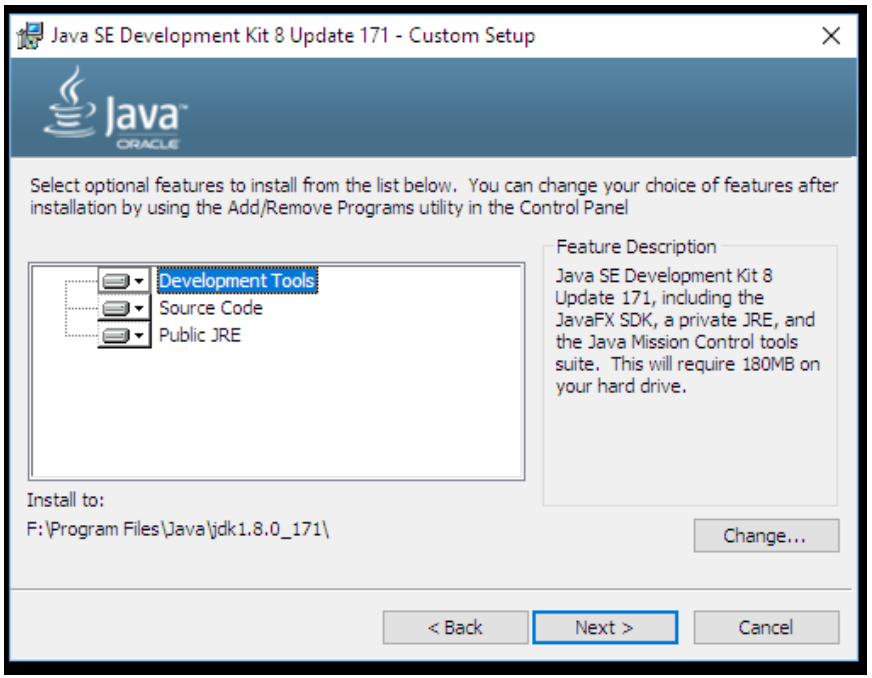


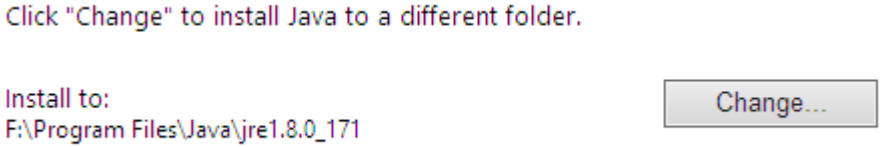
To download acceptance of Oracle Binary Code License Agreement for Java SE is needed

Installing Java JDK pt. 2 – Windows









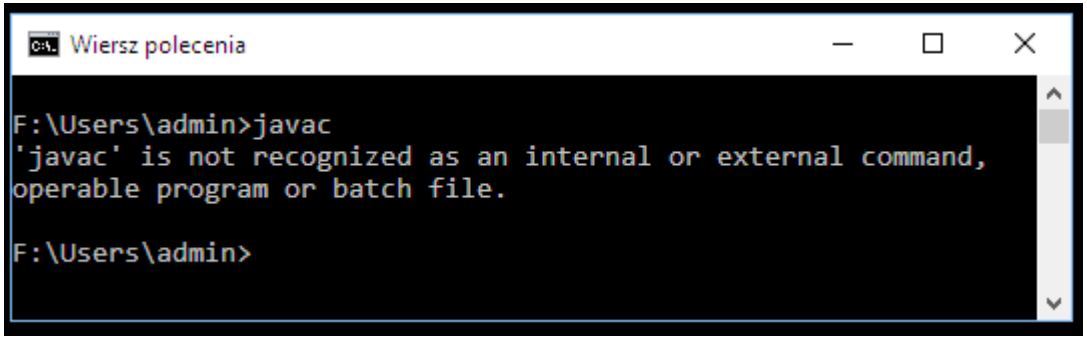
Checking Java Installation and Version pt.1

In command prompt (console) we write:

javac or *java -version*

Remark: javac must be executed in /bin folder of jdk folder otherwise system paths must be set

before JDK installation:



after JDK installation:

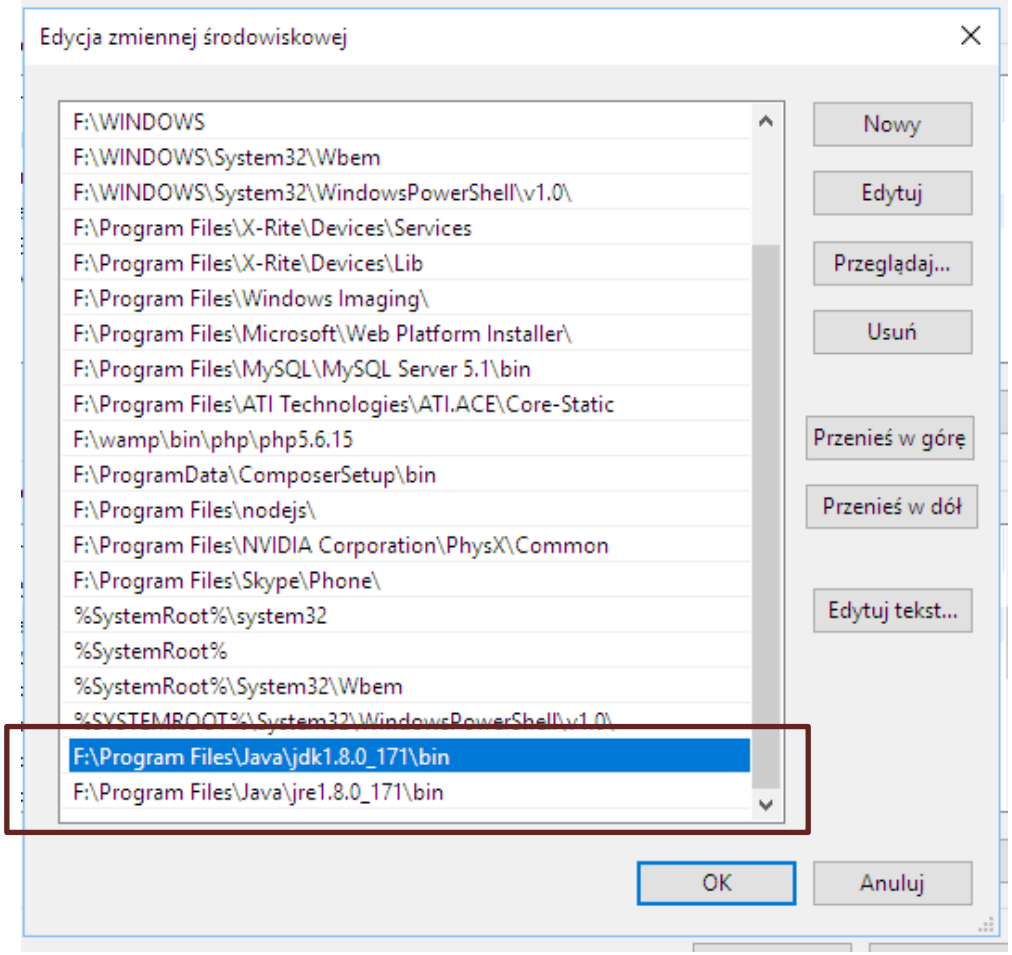
Checking Java Installation and Version pt.2

after JDK installation:

```
f:\Program Files\Java\jdk1.8.0_171\bin>javac
Usage: javac <options> <source files>
where possible options include:
  -g                         Generate all debugging info
  -g:none                    Generate no debugging info
  -g:{lines,vars,source}     Generate only some debugging info
  -nowarn                    Generate no warnings
  -verbose                   Output messages about what the compiler is doing
  -deprecation               Output source locations where deprecated APIs are used
  -classpath <path>          Specify where to find user class files and annotation processors
  -cp <path>                 Specify where to find user class files and annotation processors
  -sourcepath <path>         Specify where to find input source files
  -bootclasspath <path>      Override location of bootstrap class files
  -extdirs <dirs>            Override location of installed extensions
  -endorseddirs <dirs>       Override location of endorsed standards path
  -proc:{none,only}          Control whether annotation processing and/or compilation is done.

  -processor <class1>[,<class2>,<class3>...] Names of the annotation processors to run; bypass
es default discovery process
  -processorpath <path>      Specify where to find annotation processors
  -parameters                Generate metadata for reflection on method parameters
  -d <directory>             Specify where to place generated class files
  -s <directory>             Specify where to place generated source files
  -h <directory>             Specify where to place generated native header files
  -implicit:{none,class}     Specify whether or not to generate class files for implicitly ref
erenced files
  -encoding <encoding>       Specify character encoding used by source files
  -source <release>          Provide source compatibility with specified release
  -target <release>          Generate class files for specific VM version
  -profile <profile>         Check that API used is available in the specified profile
  -version                   Version information
  -help                      Print a synopsis of standard options
  -Akey[=value]              Options to pass to annotation processors
  -X                         Print a synopsis of nonstandard options
  -J<flag>                   Pass <flag> directly to the runtime system
  -Werror                    Terminate compilation if warnings occur
  @<filename>                Read options and filenames from file
```

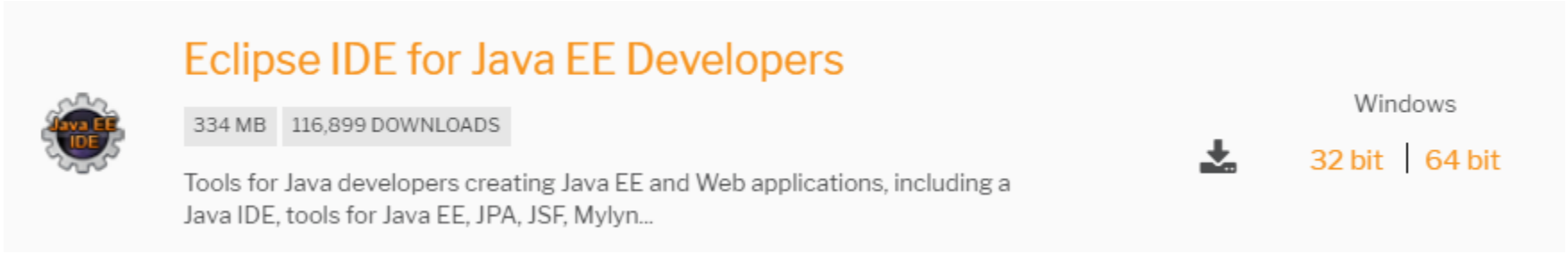
Setting System Paths



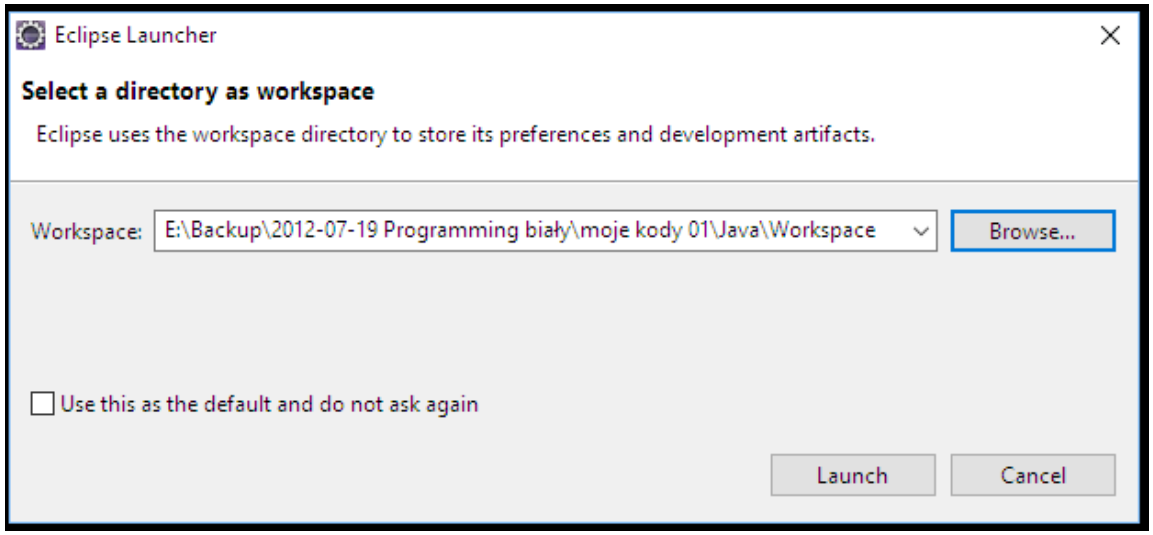
Installing Eclipse IDE pt. 1

type in Google: *Eclipse download*

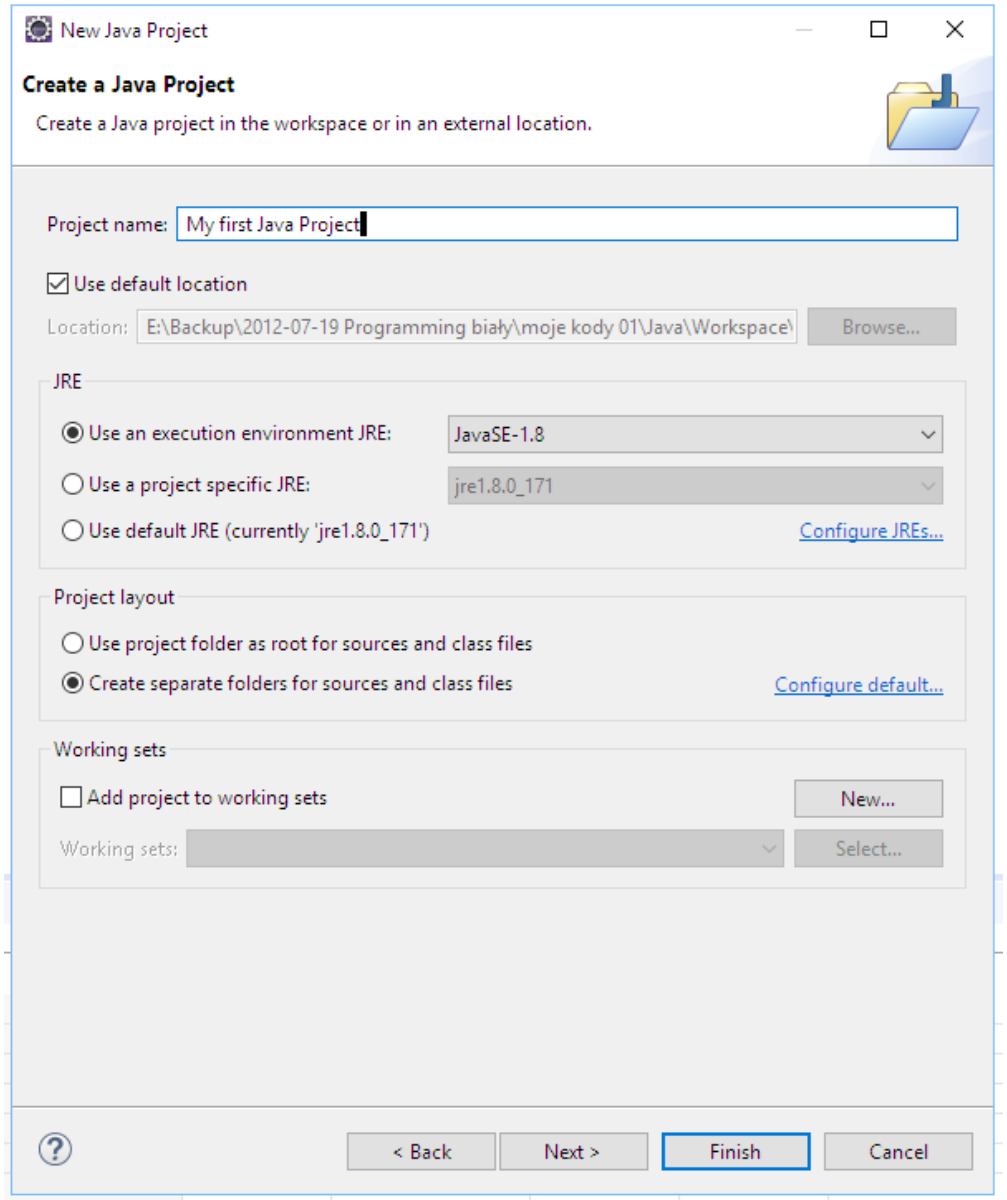
http://www.eclipse.org/downloads/eclipse-packages/

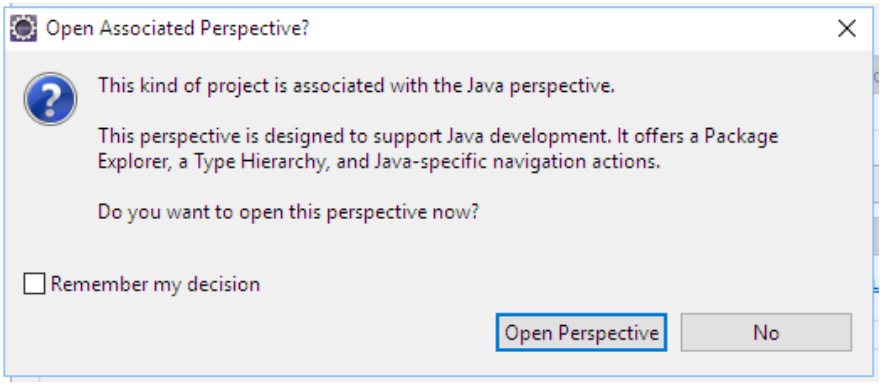


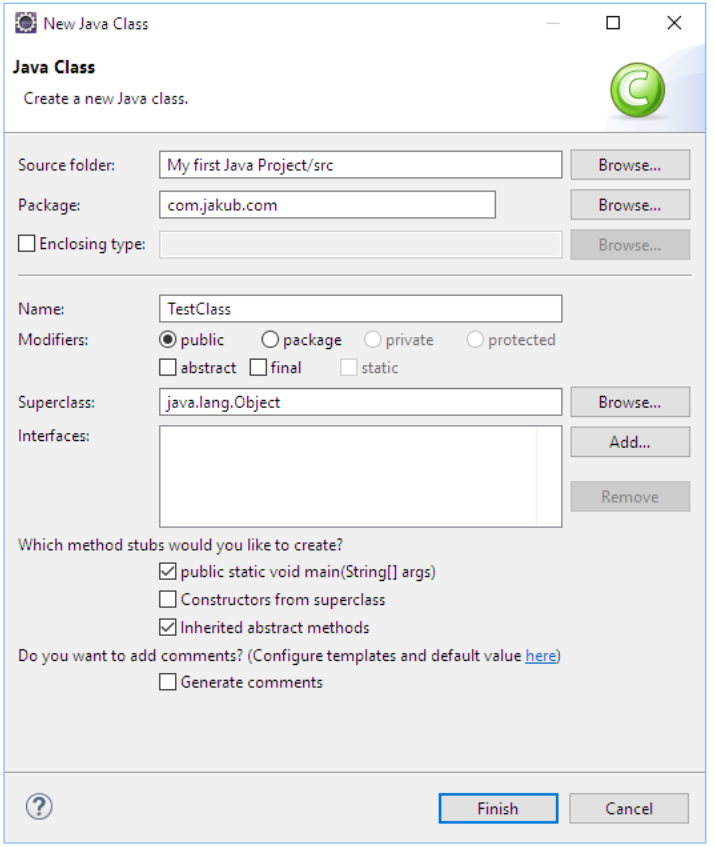
eclipse-jee-oxygen-3a-win32 zip 349 985 224 2018-04-21



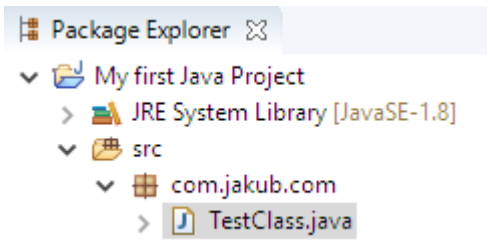
Installing Eclipse IDE pt. 2

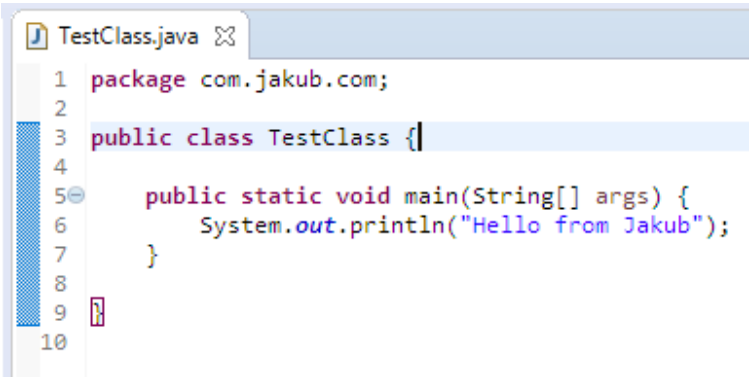


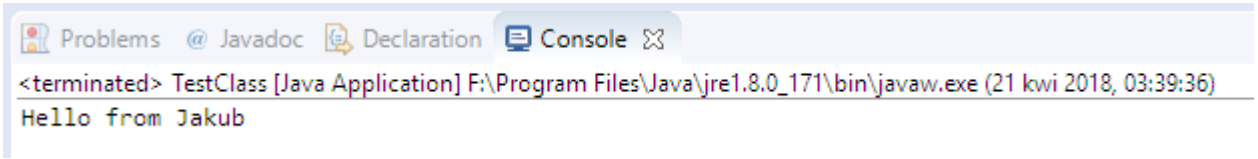




Installing Eclipse IDE pt. 3







Good Code

scalable, reliable, with fast performance