

[Java SE](#)[Java EE](#)[Java ME](#)[Java SE Advanced & Suite](#)[Java Embedded](#)[Java DB](#)[Web Tier](#)[Java Card](#)[Java TV](#)[New to Java](#)[Community](#)[Java Magazine](#)[Overview](#)[Downloads](#)[Documentation](#)[Community](#)[Technologies](#)[Training](#)

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**.
- [Java Developer Day hands-on workshops \(free\) and other events](#)
- [Java Magazine](#)

JDK 8u171 [checksum](#)

[Java](#)[Java SE](#)[Java EE](#)[Java ME](#)[Java Card](#)[NetBeans](#)[Java IDE](#)[Java](#)[Java API](#)[Techniques](#)[Demos](#)[Forums](#)[Java M](#)[Develop](#)[Tutorial](#)

Programming in Java – Laboratory

[Linux ARM 64 Hard Float ABI](#)

74.89 MB

[jdk-8u171-linux-arm64-vfp-hflt.tar.gz](#)[Linux x86](#)

170.95 MB

[jdk-8u171-linux-i586.tar.gz](#)

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>

The screenshot shows the Oracle Java SE Development Kit 8 Downloads page. The page has a navigation bar with the Oracle logo, a menu icon, a search bar, and links for Sign In, Country/Region, and Call. Below the navigation bar is a breadcrumb trail: Oracle Technology Network / Java / Java SE / Downloads. The main content area is titled "Java SE Development Kit 8 Downloads" and includes a description of the JDK, a list of links to download the JDK, and a section for the "Java SE Development Kit 8u171" download. The "Java SE Development Kit 8u171" section includes a table of download links for various operating systems and architectures.

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**.
- [Java Developer Day hands-on workshops \(free\) and other events](#)
- [Java Magazine](#)

JDK 8u171 [checksum](#)
JDK 8u172 [checksum](#)

Java SE Development Kit 8u171

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

☐ Accept License Agreement ☐ Decline License Agreement

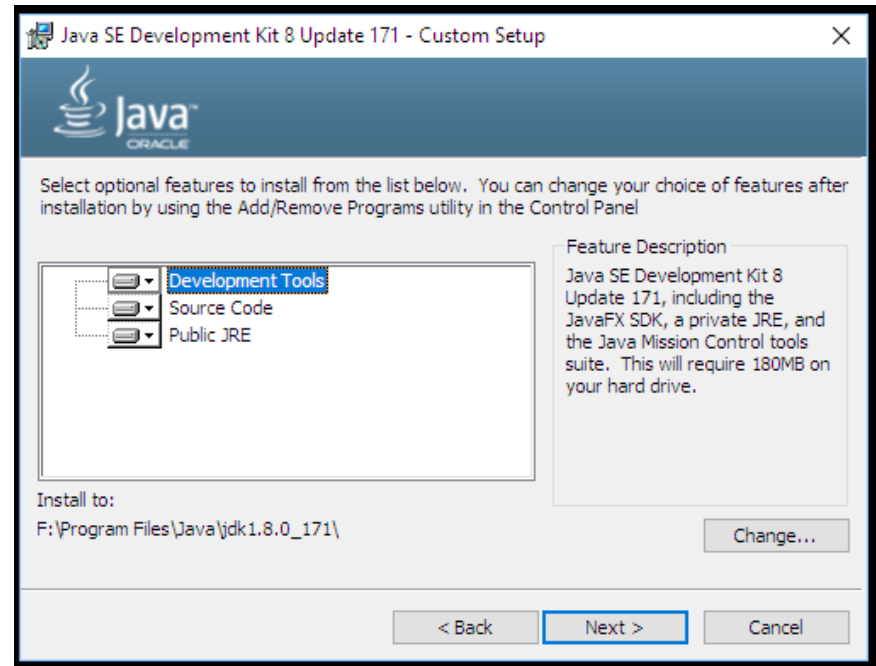
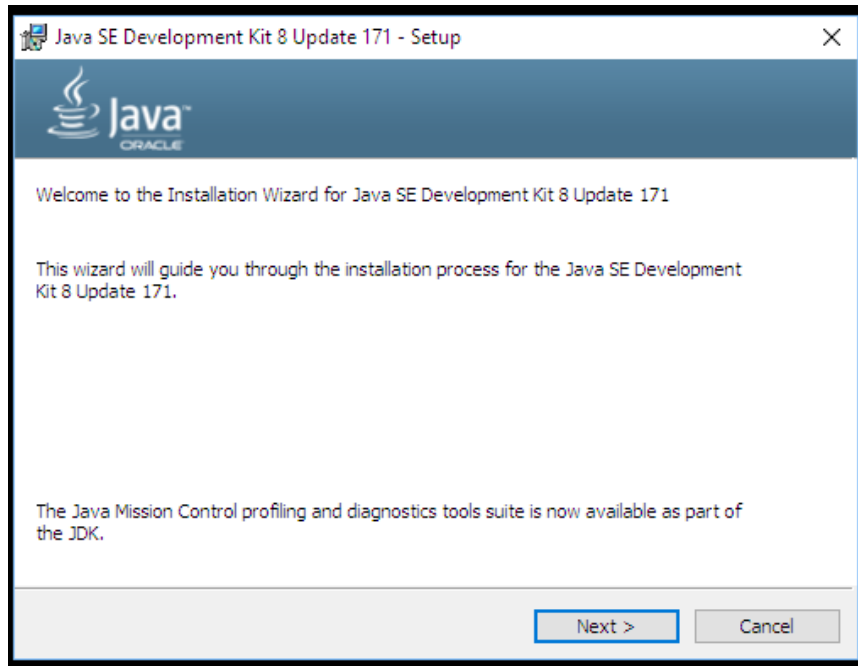
Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	77.97 MB	jdk-8u171-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	74.89 MB	jdk-8u171-linux-arm64-vfp-hflt.tar.gz
Linux x86	170.05 MB	jdk-8u171-linux-i586.rpm
Linux x86	184.88 MB	jdk-8u171-linux-i586.tar.gz
Linux x64	167.14 MB	jdk-8u171-linux-x64.rpm
Linux x64	182.05 MB	jdk-8u171-linux-x64.tar.gz
Mac OS X x64	247.84 MB	jdk-8u171-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	139.83 MB	jdk-8u171-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	99.19 MB	jdk-8u171-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	140.6 MB	jdk-8u171-solaris-x64.tar.Z
Solaris x64	97.05 MB	jdk-8u171-solaris-x64.tar.gz
Windows x86	199.1 MB	jdk-8u171-windows-i586.exe
Windows x64	207.27 MB	jdk-8u171-windows-x64.exe

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

Installing Java JDK pt. 2 – Windows

Nazwa pliku:

Zapisz jako typ:



Click "Change" to install Java to a different folder.

Install to:
F:\Program Files\Java\jre1.8.0_171

Change...

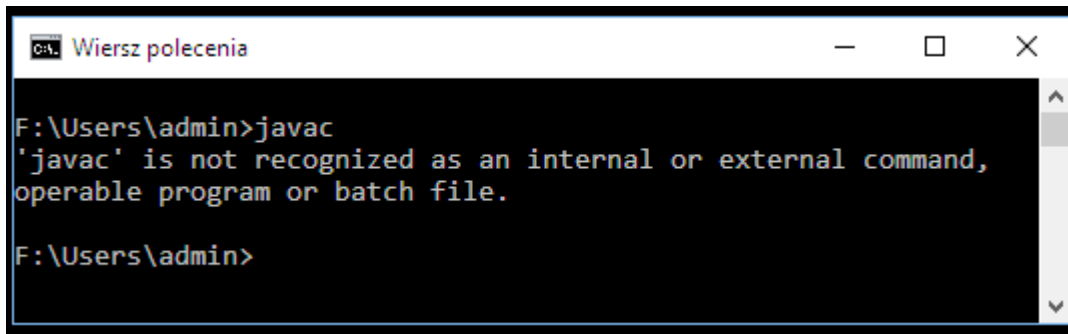
Checking Java Installation and Version pt.1

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:



```
Wiersz poleceń
F:\Users\admin>javac
'javac' is not recognized as an internal or external command,
operable program or batch file.
F:\Users\admin>
```

after JDK installation:

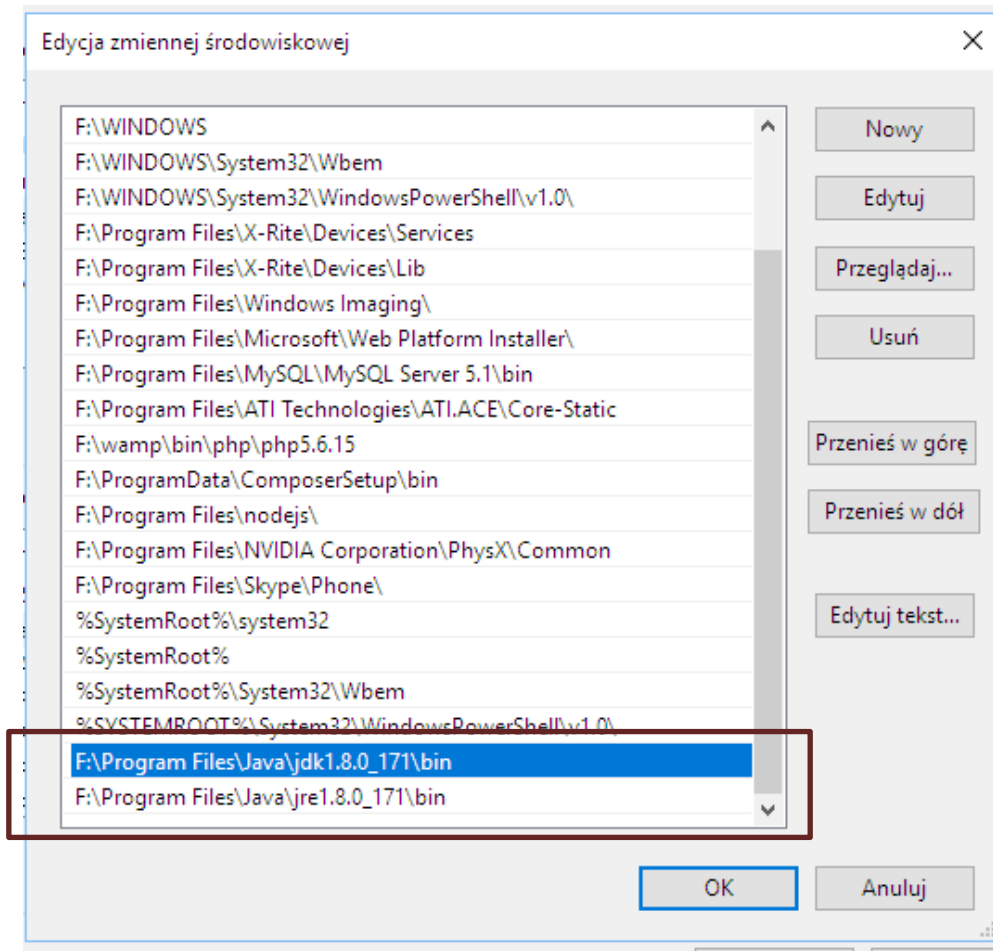
```
f:\Program Files\Java\jdk1.8.0_171\bin>java -version
java version "1.8.0_171"
Java(TM) SE Runtime Environment (build 1.8.0_171-b11)
Java HotSpot(TM) Client VM (build 25.171-b11, mixed mode)
```

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 IDE for Java EE Developers


334 MB

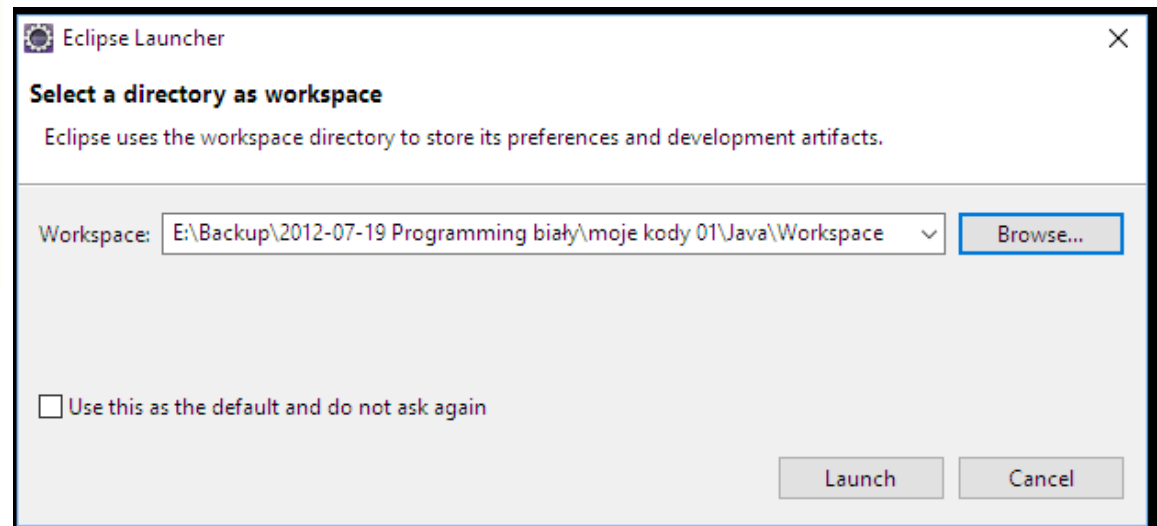
116,899 DOWNLOADS

Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...


Windows

 **32 bit** | **64 bit**

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



Installing Eclipse IDE pt. 2

 **New Java Project**

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name:

☒ Use default location

Location: [Browse...](#)

JRE

☒ Use an execution environment JRE:

☐ Use a project specific JRE:

☐ Use default JRE (currently 'jre1.8.0_171') [Configure JREs...](#)

Project layout

☐ Use project folder as root for sources and class files


☒ Create separate folders for sources and class files [Configure default...](#)


Working sets

☐ Add project to working sets [New...](#)

Working sets: [Select...](#)

[?](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

 **Open Associated Perspective?**


 This kind of project is associated with the Java perspective.

This perspective is designed to support Java development. It offers a Package Explorer, a Type Hierarchy, and Java-specific navigation actions.

Do you want to open this perspective now?

☐ Remember my decision

[Open Perspective](#) [No](#)

 **New Java Class**

Java Class

Create a new Java class.

Source folder: [Browse...](#)

Package: [Browse...](#)

☐ Enclosing type: [Browse...](#)

Name:

Modifiers: ☒ public ☐ package ☐ private ☐ protected

☐ abstract ☐ final ☐ static

Superclass: [Browse...](#)

Interfaces: [Add...](#) [Remove](#)

Which method stubs would you like to create?

☒ public static void main(String[] args)

☐ Constructors from superclass

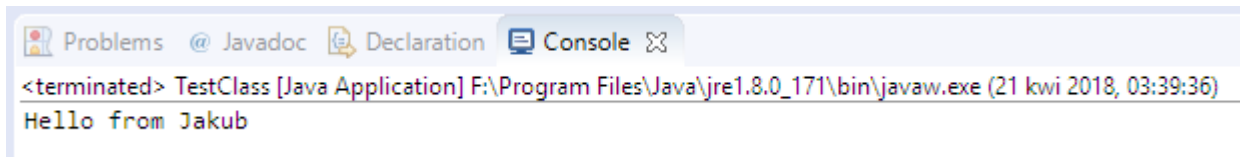
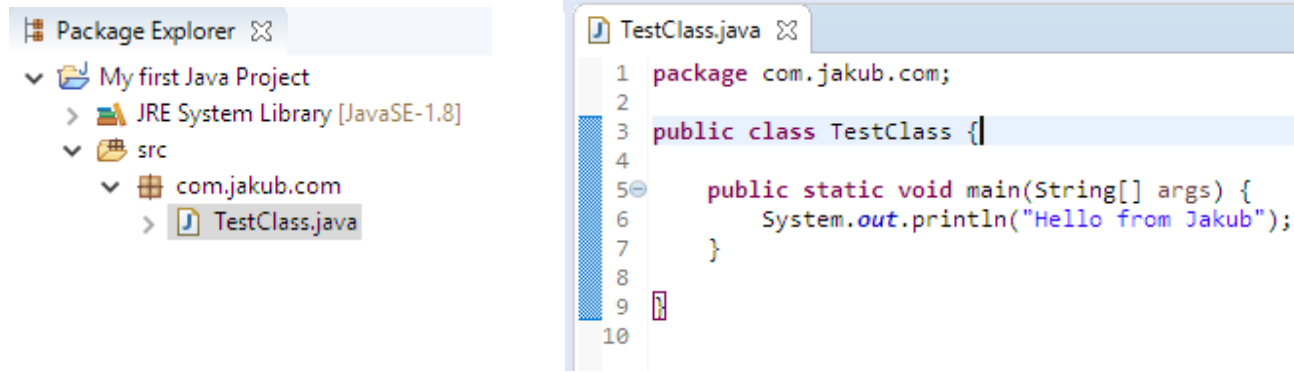
☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

[?](#) [Finish](#) [Cancel](#)

Installing Eclipse IDE pt. 3



Good Code

scalable, reliable, with fast performance