

# in28minutes

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## Installing Java and Eclipse

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# Congratulations

You have made a great choice in learning with in28Minutes. You are joining 100,000+ Learners learning everyday with us.

100,000+ Java beginners are learning from in28Minutes to become experts on APIs, Web Services and Microservices with Spring, Spring Boot and Spring Cloud.



**Big Data, Machine Learning and Analytics**

**Full Stack Developer with Javascript, Angular & React**

**Microservices with Spring Boot & Spring Cloud**

**Web Services and REST API with Spring Boot**

**Java to Other Languages - Python, Kotlin, Scala**

**Functional Programming with Java**

**Advanced Object Oriented Programming with Java**

**Basics of Programming with Java**

# About in28Minutes

*How did in28Minutes get to 100,000 learners across the world?*

Total Students 

115,263

Top Student Locations

United States	27%
India	22%
Poland	3%
United Kingdom	3%
Canada	2%

Countries With Students

181

*We are focused on creating the awesome course (learning) experiences. Period.*

An awesome learning experience? What's that?

You need to get insight into the in28Minutes world to answer that.

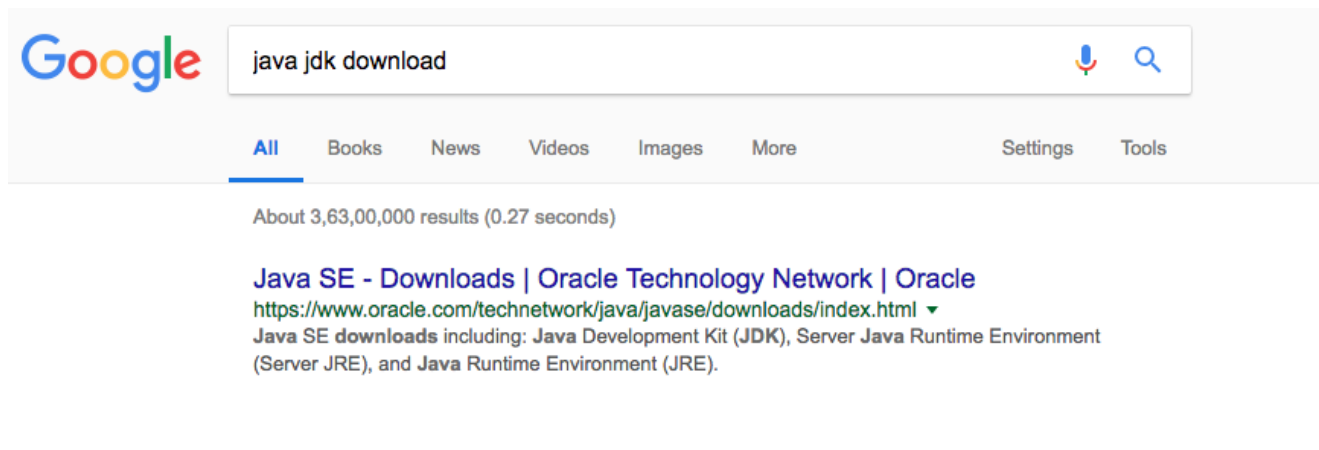
You need to understand "*The in28Minutes Way*"

- What are our beliefs?
- What do we love?
- Why do we do what we do?
- How do we design our courses?

Let's get started on "*The in28Minutes Way*"!

# Installing Java

Google for "java jdk download"



Land on the Oracle JDK Download Site

Oracle Technology Network / Java / Java SE / Downloads

**Java SE Downloads**

Java Platform (JDK) 10

**Java Platform, Standard Edition**

**Java SE 10.0.2**  
Java SE 10.0.2 is the latest feature release for the Java SE Platform  
[Learn more](#)

- Installation Instructions
- Release Notes
- Oracle License
- Java SE Licensing Information User Manual
  - Includes Third Party Licenses
- Certified System Configurations
- Readme

**JDK**  
[DOWNLOAD](#)

**Server JRE**  
[DOWNLOAD](#)

**JRE**  
[DOWNLOAD](#)

## Accept License Agreement

**Java SE Development Kit 9.0.4**

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	305.07 MB	<a href="#">jdk-9.0.4_linux-x64_bin.rpm</a>
Linux	338.21 MB	<a href="#">jdk-9.0.4_linux-x64_bin.tar.gz</a>
macOS	382.11 MB	<a href="#">jdk-9.0.4_osx-x64_bin.dmg</a>
Windows	375.56 MB	<a href="#">jdk-9.0.4_windows-x64_bin.exe</a>
Solaris SPARC	206.97 MB	<a href="#">jdk-9.0.4_solaris-sparcv9_bin.tar.gz</a>

## Download JDK for Your Specific Operating System

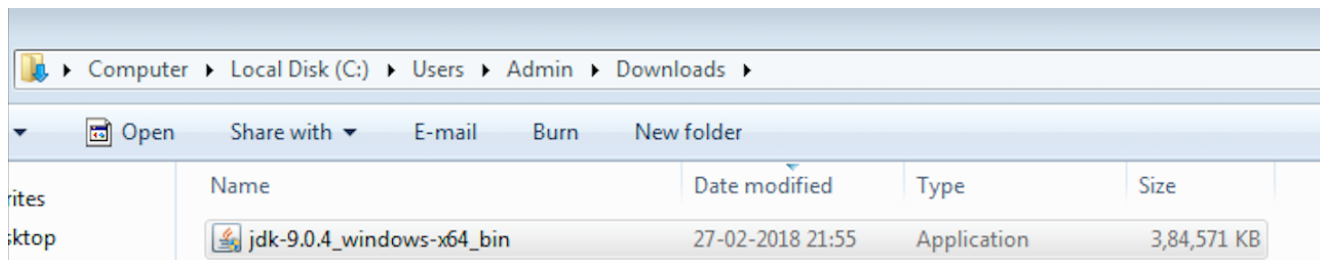
## Java SE Development Kit 10.0.2

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

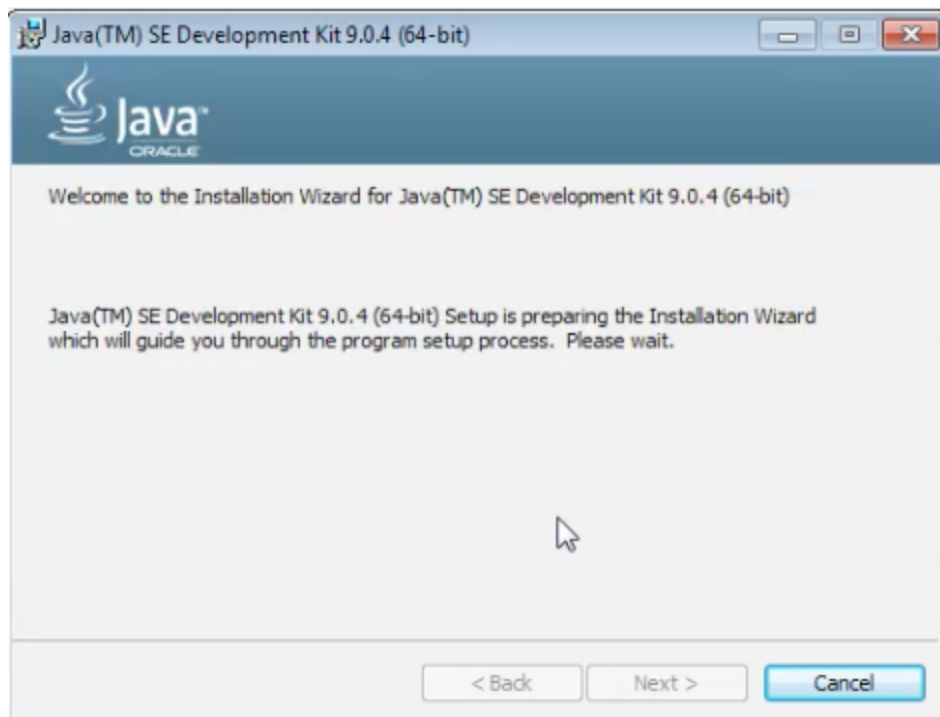
Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.

Product / File Description	File Size	Download
Linux	306 MB	<a href="#">jdk-10.0.2_linux-x64_bin.rpm</a>
Linux	338.43 MB	<a href="#">jdk-10.0.2_linux-x64_bin.tar.gz</a>
macOS	395.46 MB	<a href="#">jdk-10.0.2_osx-x64_bin.dmg</a>
Solaris SPARC	207.07 MB	<a href="#">jdk-10.0.2_solaris-sparcv9_bin.tar.gz</a>
Windows	390.25 MB	<a href="#">jdk-10.0.2_windows-x64_bin.exe</a>

Launch the Downloaded file

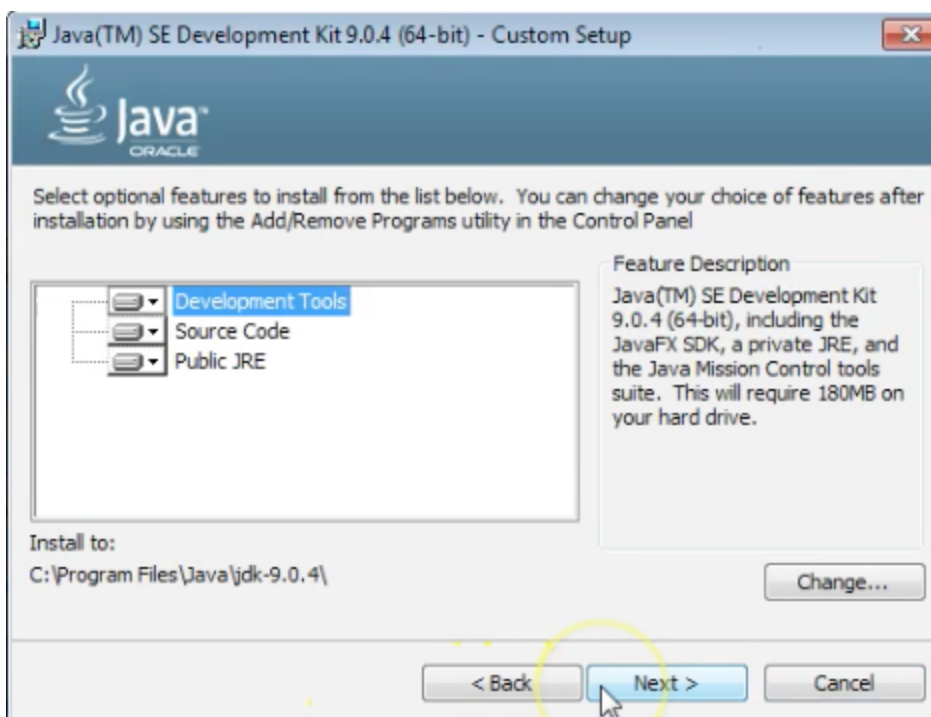


Java Installation Screens

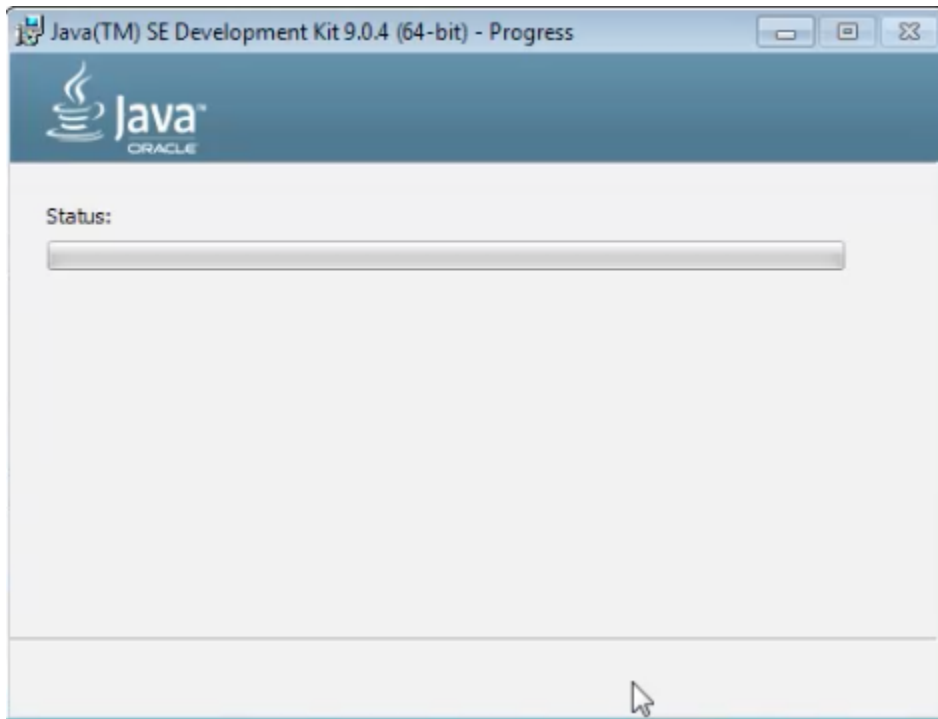




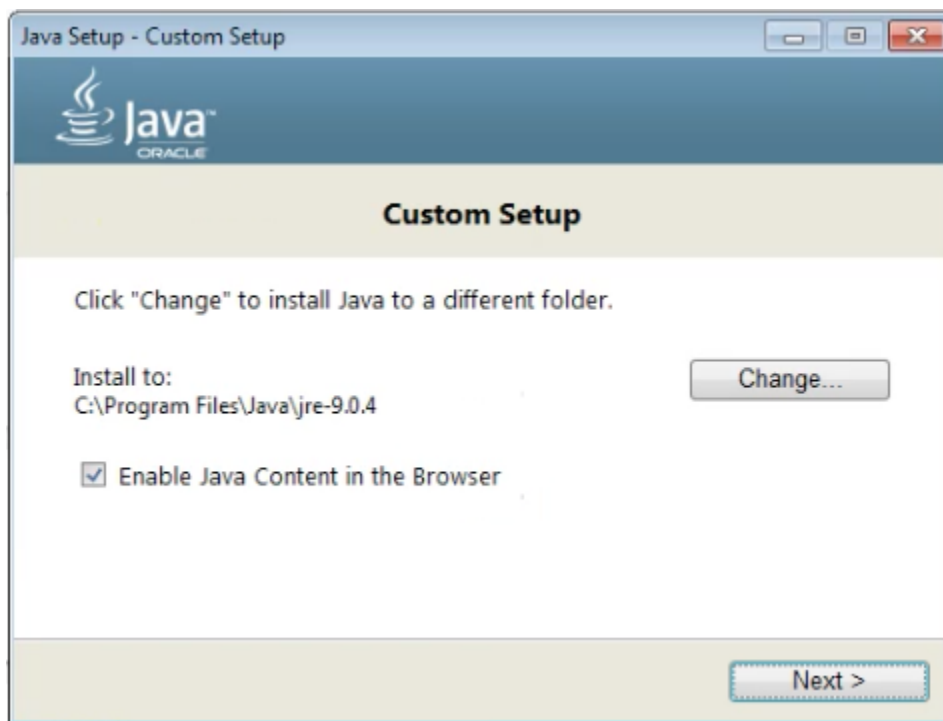
Choose Defaults and Copy Install Location







Choose Defaults and Copy Install Location



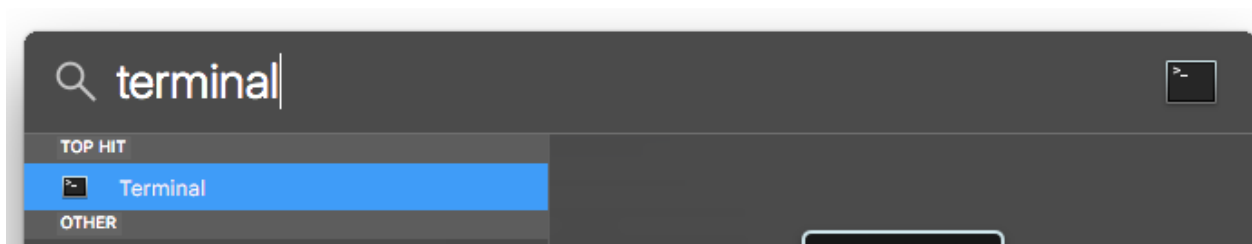
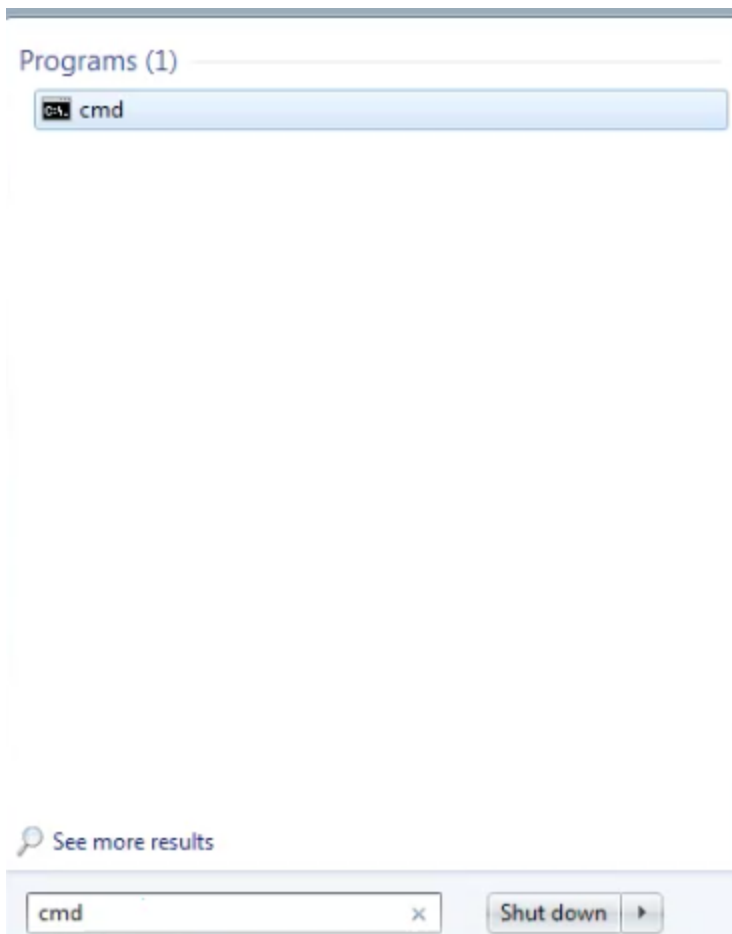


Congratulations



# Verify Java and JShell Installation

Launch Terminal or Command Prompt



## Detailed Instructions

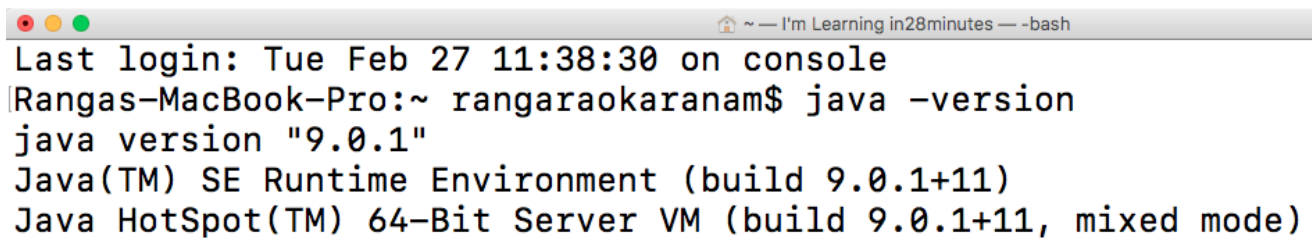
1. If you are on Windows : Open the Command Prompt window by

- Click the Start button
- Select All Programs -> Accessories > Command Prompt.
- Or use Ctrl + Esc, and type in cmd and launch up command.

1. If you are on Mac or other OS, launch up Terminal.

- cmd + space -> Type terminal -> Press enter

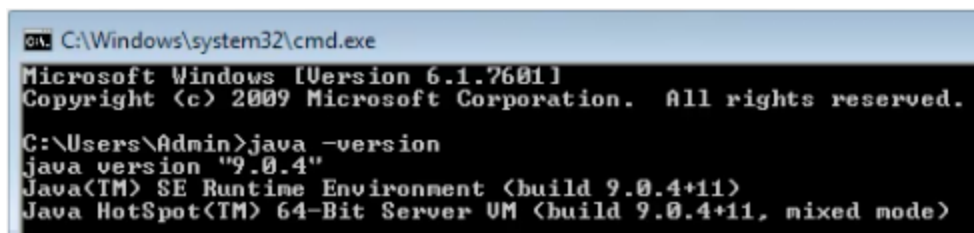
## Java Version Successful



```

Last login: Tue Feb 27 11:38:30 on console
Rangas-MacBook-Pro:~ rangaraokaranam$ java -version
java version "9.0.1"
Java(TM) SE Runtime Environment (build 9.0.1+11)
Java HotSpot(TM) 64-Bit Server VM (build 9.0.1+11, mixed mode)

```



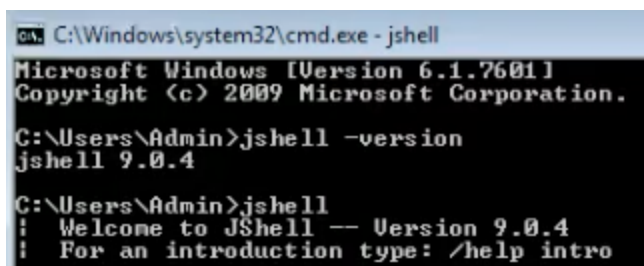
```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Admin>java -version
java version "9.0.4"
Java(TM) SE Runtime Environment (build 9.0.4+11)
Java HotSpot(TM) 64-Bit Server VM (build 9.0.4+11, mixed mode)

```

## JShell Version Successful



```

C:\Windows\system32\cmd.exe - jshell
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.

C:\Users\Admin>jshell -version
jshell 9.0.4

C:\Users\Admin>jshell
! Welcome to JShell -- Version 9.0.4
! For an introduction type: /help intro

```

```

Rangas-MacBook-Pro:~ rangaraokaranam$ jshell -version
jshell 9.0.1
Rangas-MacBook-Pro:~ rangaraokaranam$ █

```

## Launching JShell

```

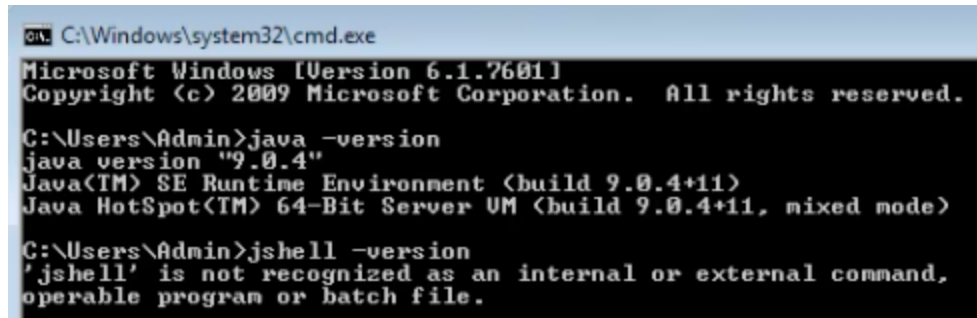
Rangas-MacBook-Pro:~ rangaraokaranam$ jshell
| Welcome to JShell -- Version 9.0.1
| For an introduction type: /help intro

```

```
Rangas-MacBook-Pro:~ rangaraokaranam$ jshell
| Welcome to JShell -- Version 9.0.1
| For an introduction type: /help intro
```

```
jshell> 5 * 4
$1 ==> 20
```

## Error In Launching JShell



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Admin>java -version
java version "9.0.4"
Java(TM) SE Runtime Environment (build 9.0.4+11)
Java HotSpot(TM) 64-Bit Server VM (build 9.0.4+11, mixed mode)

C:\Users\Admin>jshell -version
'jshell' is not recognized as an internal or external command,
operable program or batch file.
```

*If you are in windows, `java -version` is working and `jshell -version` is not working, directly jump to the section `Setting PATH environment variable in Windows`*

# Troubleshooting Java Installation

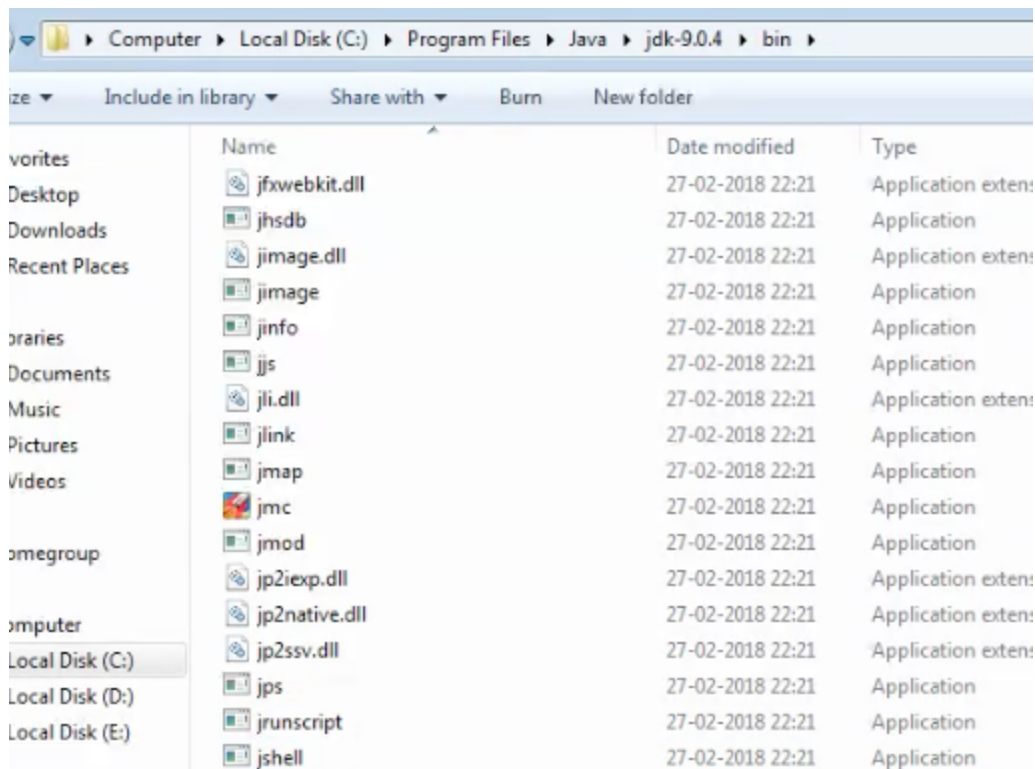
1. Check if there are any pre-existing Java installs. Uninstall them and reinstall again.
2. Temporarily turn off firewalls and antivirus software.
3. If you get file corrupt message, download the installation file again.
4. Check if you are on 32-bit OS or 64-bit OS. Remember, Java 9 is not supported on 32 bit windows.
5. Check if you need PATH variable to point to right Java Version
  - <https://www.java.com/en/download/help/path.xml>

## More Help

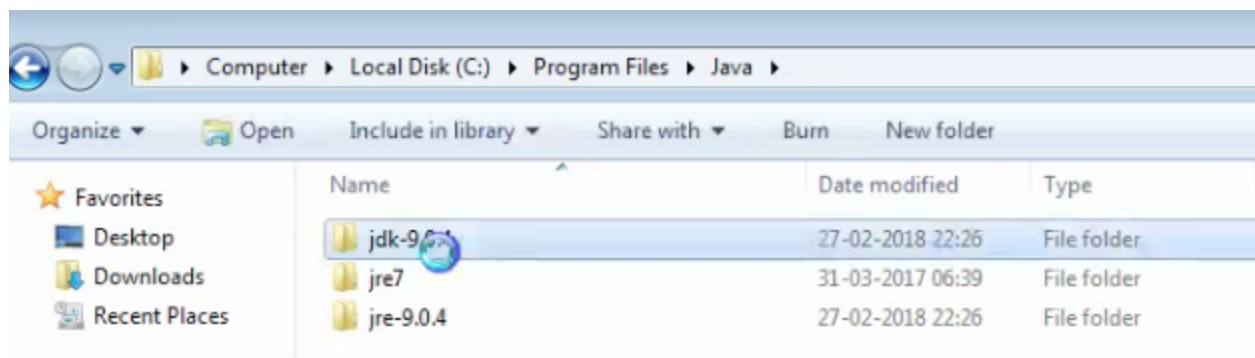
- Windows - <https://docs.oracle.com/javase/9/install/installation-jdk-and-jre-microsoft-windows-platforms.htm>
- Mac - <https://docs.oracle.com/javase/9/install/installation-jdk-and-jre-macos.htm#JSJIG-GUID-2FE451B0-9572-4E38-A1A5-568B77B146DE>
- Linux - <https://docs.oracle.com/javase/9/install/installation-jdk-and-jre-linux-platforms.htm#JSJIG-GUID-737A84E4-2EFF-4D38-8E60-3E29D1B884B8>

# Setting PATH environment variable in Windows

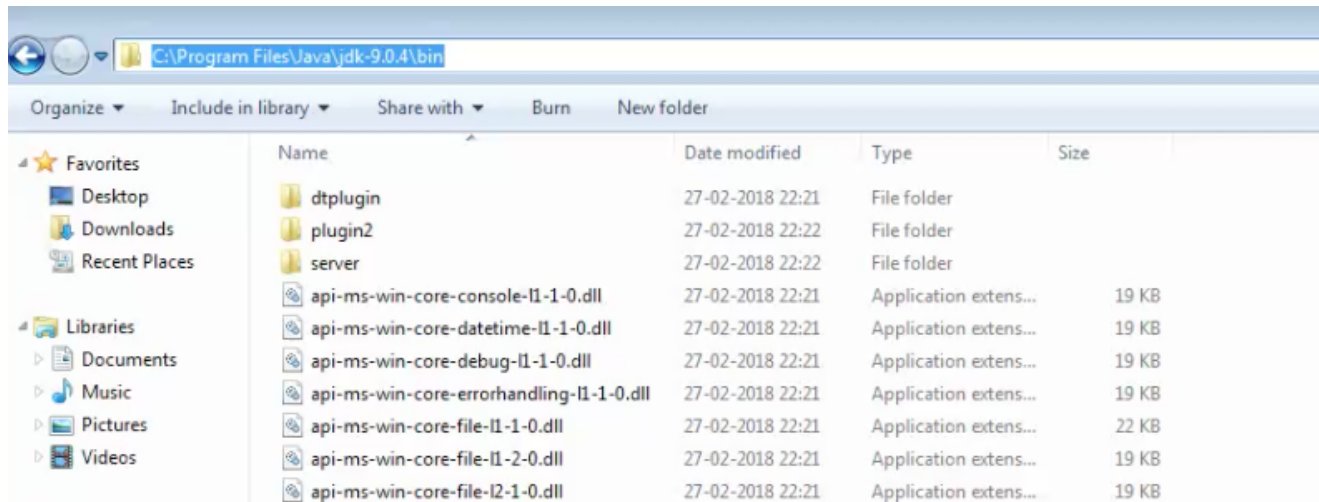
Goal - What we want to do?



Browsing to Java Folder



Browsing to JDK Bin Folder



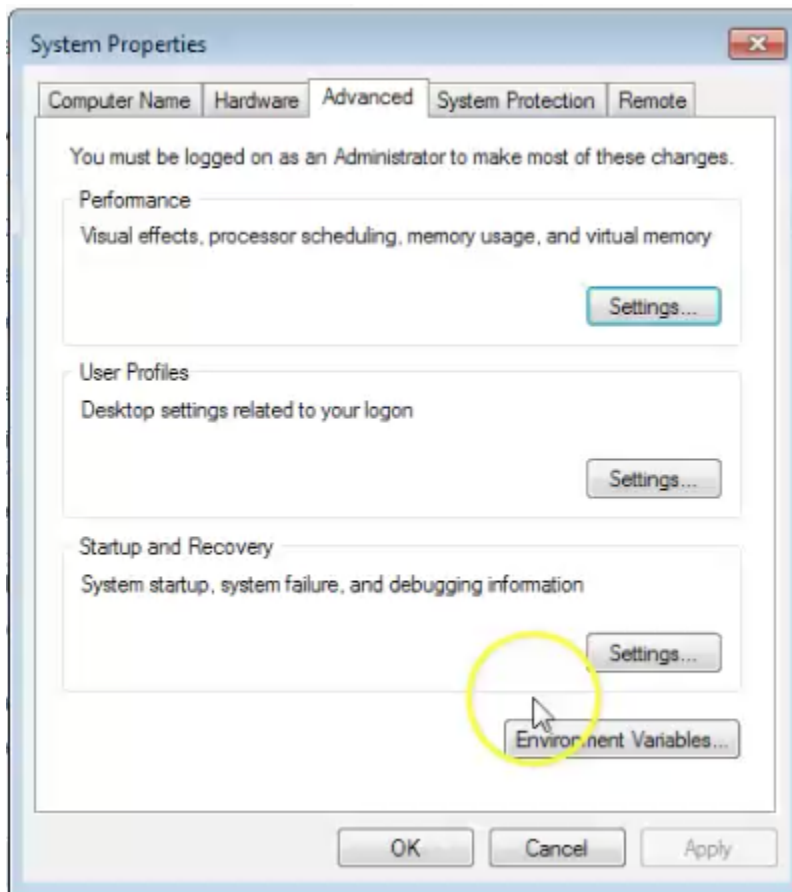
## Launch Environment Variables

### Two Options

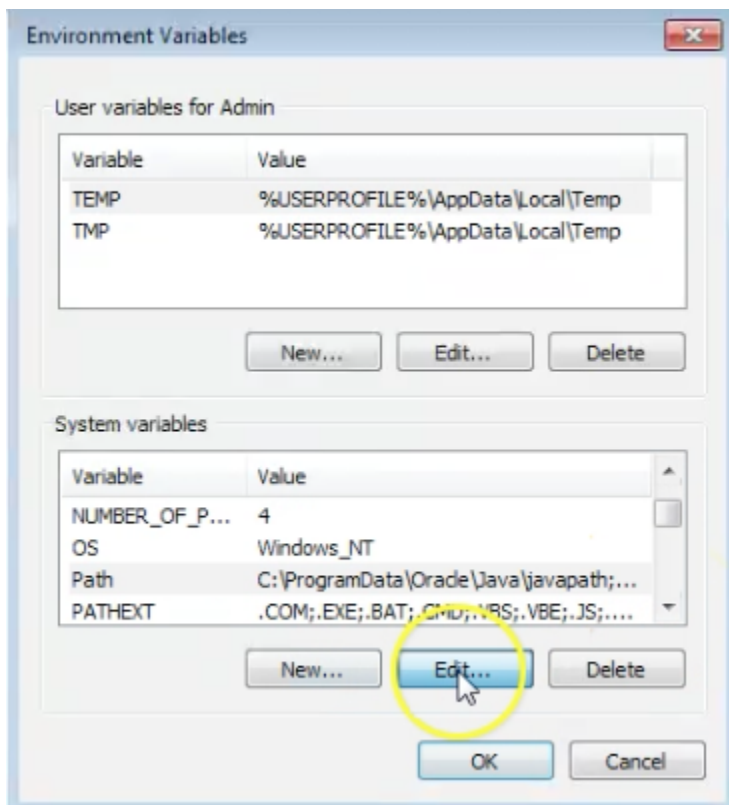
- Short Route - Click Start Button or `Ctrl + Esc` to launch start menu and type in `Env`. Choose `Edit System Environment Variables`.
- Long Route - Select `Control Panel` and then `System`. Click `Advanced` and then `Environment Variables`.

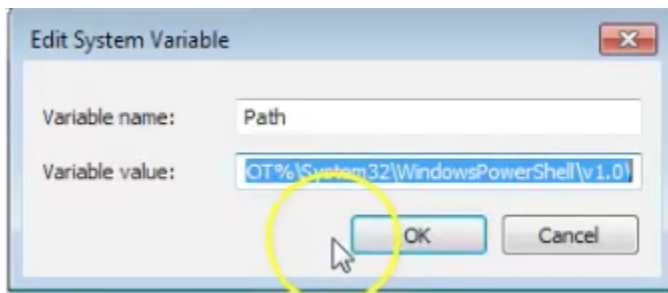


-  Image

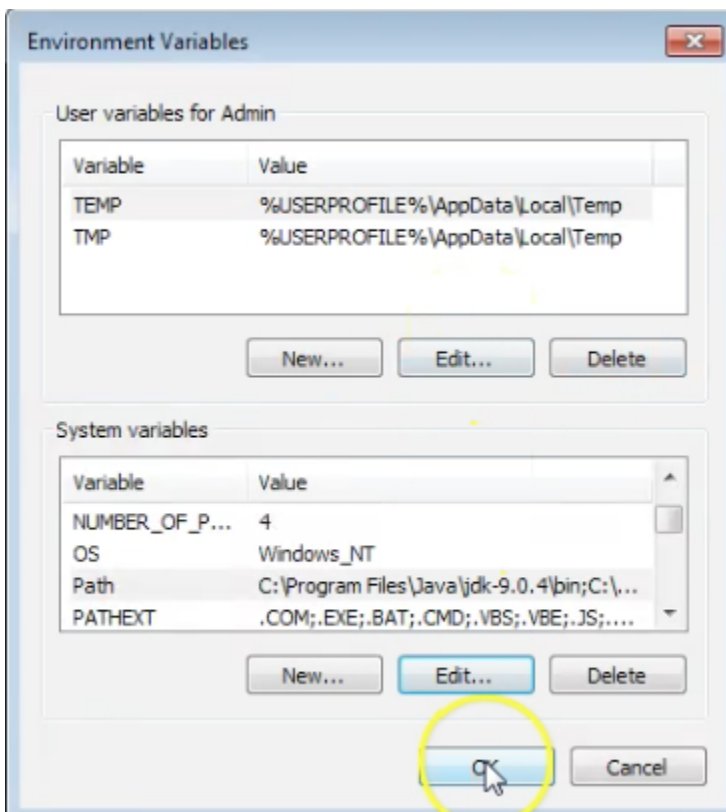
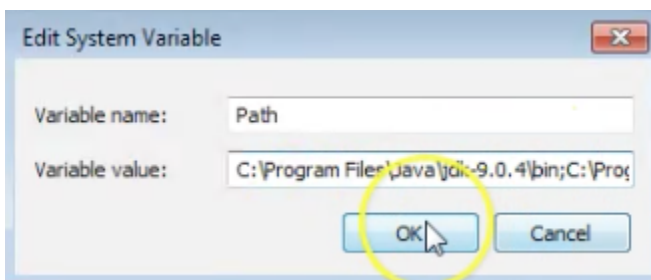
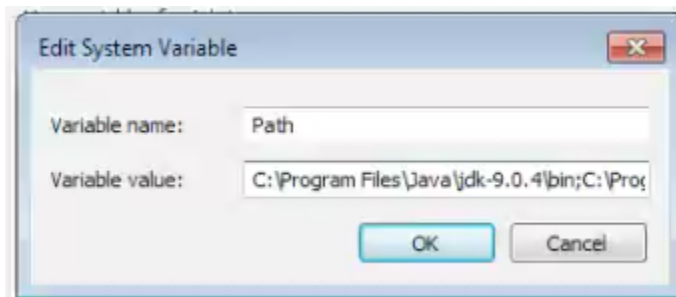


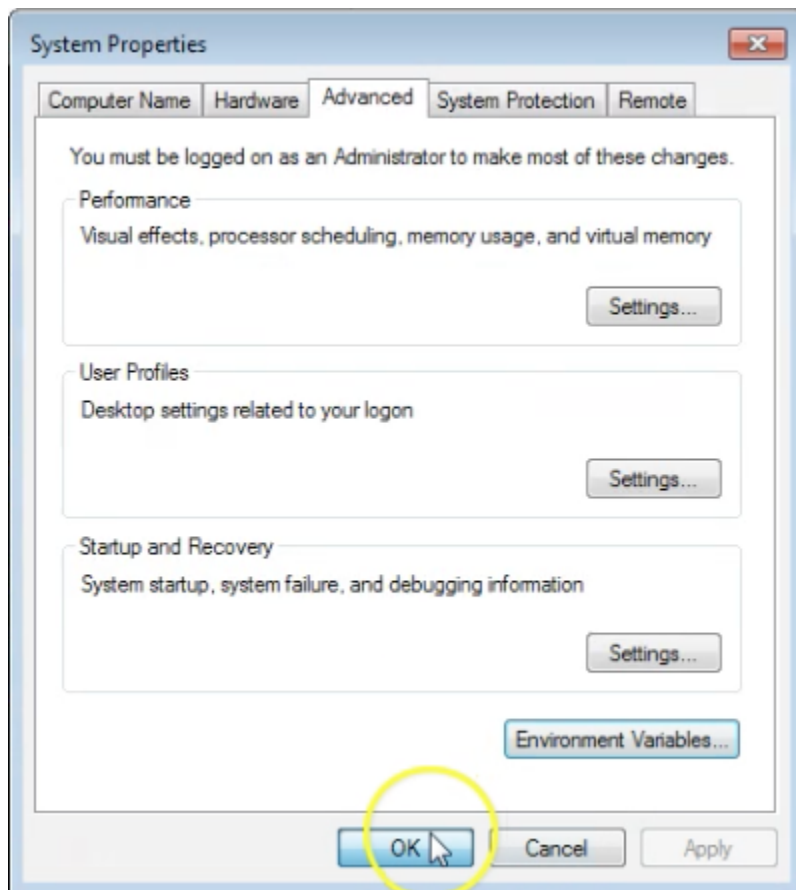
## Select and Edit Path Variable





Add JDK Bin Folder To Path





# Installing Eclipse

Eclipse is the most popular open source Java IDE.

Choose the latest available version of Eclipse - Eclipse Oxygen (4.7) or Later.

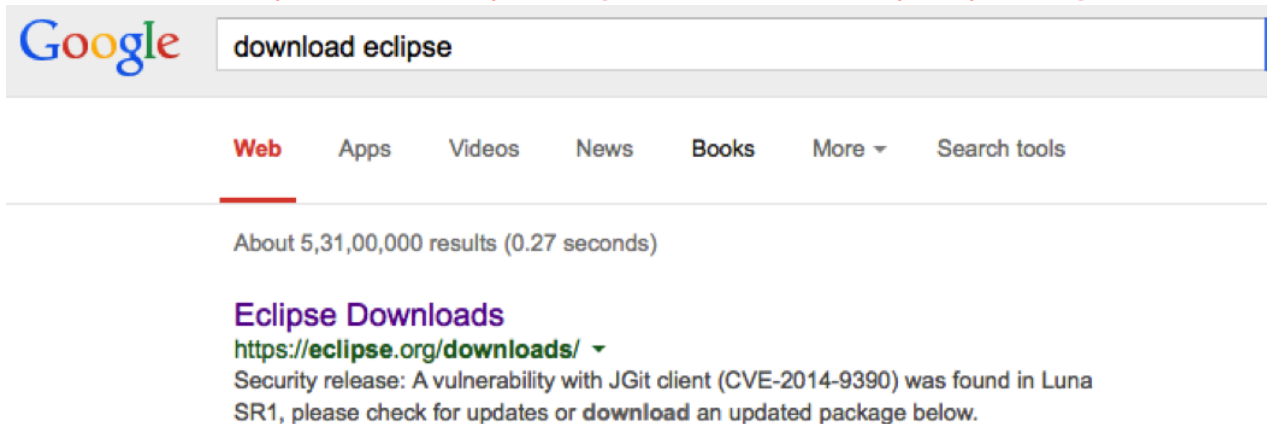
*Tip : Do not use an old eclipse version!*

## Prerequisites

- Java JDK 9

## Installation

1. Search google for "download eclipse" and choose the first result. The direct link is <http://www.eclipse.org/downloads/eclipse-packages/>.



2. Choose the right Operation System.

# 1. Package Solutions

Eclipse Luna SR2 (4.4.2) Release for Windows



### Eclipse IDE for Java Developers

155 MB 3,892,954 DOWNLOADS

The essential tools for any Java developer, including a Java IDE, a CVS client, Git client, XML Editor, Mylyn, Maven integration...



Windows

32 bit | 64 bit



### Eclipse IDE for Java EE Developers

254 MB 2,083,405 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

2. We recommend to choose "Eclipse IDE for Java EE Developers". Choose 32 bit or 64 bit based on your operating system. (Right-click My Computer, and then click Properties. If "x64 Edition" is listed under System, your processor is capable of running a 64-bit version of Windows.)
3. Wait for the download to complete. Extract the zip file to a folder (Example : c:\eclipse).
4. When you unzip Eclipse, the directory layout looks something like this:

```
eclipse/
  features/           ''the directory containing
Eclipse features''
  plugins/           ''the directory containing
Eclipse plugins''
  eclipse.exe         ''platform executable''
  eclipse.ini
  eclipsesec.exe      ''(windows only) console
executable''
  epl-v10.html        ''the EPL license''
  jre/               ''the JRE to run Eclipse
with''
  notice.html
  readme
```

1. You can start Eclipse by running eclipse.exe on Windows or eclipse on

1. other platforms. This small launcher essentially finds and loads the JVM. On Windows, the eclipse.exe console executable can be used for improved command line behavior.

*More Details*

- [https://wiki.eclipse.org/FAQ\\_How\\_do\\_I\\_run\\_Eclipse%3F](https://wiki.eclipse.org/FAQ_How_do_I_run_Eclipse%3F)

## Troubleshooting

- Use 7Zip instead of windows built-in decompression utility.
- Unzip to root folder (e.g. c:) compared to a long directory path (e.g. c:\Program Files\Eclipse).
- Reference - <https://wiki.eclipse.org/Eclipse/Installation#Troubleshooting>



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and Full Stack Development

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