JavaInstallationKit

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1 How to Install JDK?

The following document provides an outline for Install JDK. The Java Development Kit (JDK) is helpful to write programs in Java. It is also known as the Java Platform Standard Edition (Java SE). JDK is an open-source software provided by Sun Microsystems, now taken over by Oracle, for anyone to use freely for programming.Do many people have the question, JDK or JRE? So let us look at what each is used for. Java Runtime Environment (JRE) is required for running programs of Java, whereas JDK is required for writing and running the programs. JDK is a development kit containing JRE and the development tools (debugger and compiler) needed for getting a program output in Java. Simply put, JRE happens to be a subset of JDK; that is, it is included in JDK. Therefore, we will need to install JDK to write and run programs.

A part of our curriculum is based on the Java programming language. As such, you may find it helpful to have it installed on your personal computer. The following is a set of instructions to aid you in installing Java.

Downloading Java:
IN5170 uses a combination of Java and JavaFX in our course. The easiest way of getting both products installed is by using JDK version 8 or above. Below are some links to Java JDK for Linux, MacOS, and Windows.

- Oracle JDK installation guide gives clear instructions for Linux, macOS and Microsoft Windows installation instructions. Here is the link

A Java IDE can make all the difference when it comes to making your Java development experience smoother. There are multitude of free Java IDEs available some of them are listed down for you to choose. If you already have your development environment ready You can ignore this section.

- Eclipse https://www.eclipse.org/ide/
- IntelliJ IDEA https://www.jetbrains.com/idea/download/#section=windows

Incase, you want to run the programs without a setup in your local computer. We have an alternative browser IDE Replit. Replit is a popular free online IDE that you can use to create your projects with very little setup. This editor supports over 50 languages and many programming courses use it.

Here is a link for a beginner's guide on How to use replit: https://www.freecodecamp.org/news/how-to-use-replit/ You can create account here https://replit.com/ and start using the browser IDE immediately to run the programs.

These are the recommendations and some useful sources for students to choose their developing environment accordingly. Of course you are free to use your existing set up and get going with the course.