# Java Installation Guide

1. Verify Installation with the following command.
   ```
   java -version
   ```
   If you do not have Java installed/ are using a version < 6, proceed with the following steps.

2. Download the latest version of JDK from here. At the time of writing this document, the latest version is JDK 17, and the file is "jdk-17_linux-x64_bin.tar.gz".

3. Extract the files
   ```
   cd /path/to/download
   tar -zxf jdk-17_linux-x64_bin.tar.gz
   ```
   (replace filename accordingly)
   (`ls` to note the name of the extracted file)

4. Move the files to opt directory
   ```
   sudo mkdir /opt/jdk
   sudo mv jdk-17.0.2 /opt/jdk/
   ```
   (replace `jdk-17.0.2` with the name of your extracted file)

5. Set Path
   To set path and JAVA_HOME variable, add the following commands to your ~/.bashrc file.
   ```
   export JAVA_HOME=/opt/jdk/jdk-17.0.2
   export PATH=$PATH:$JAVA_HOME/bin
   ```
   (replace `jdk-17.0.2` with the name of your extracted file)

   To apply all changes:
   ```
   source ~/.bashrc
   ```

6. Change Java Alternatives
   ```
   update-alternatives -install /usr/bin/java java \ /opt/jdk/jdk-17.0.2/bin/java 100
   ```