Get started...

Always want to know exactly where we are? What do we do? So,in my case

- Product is Linux x64 and the system runs on Ubuntu 20.04
- Java 8

Todo

- Download java development environment-JDK
- Download Eclipse IDE, choose the appropriate IDE that matches
 with the development environment. Example: "Eclipse for java developers"
- A text editor(Vi,notepad,gedit...) which might be helpful to write,solve and execute small instances of problems.

Download and install java from Oracle download page

https://www.oracle.com/in/java/technologies/javase-jdk8-downloads.html

Set-up java 1.8

1 Create Java Virtual Machine folder

sudo mkdir /usr/lib/jvm

(mkdir->make directory)(/usr/lib/jvm->working directory)

2 Add directory to the stack

pushd /usr/lib/jvm

popd command to pop-out specified directories from the stack

"You can also use cd(change directory) command, that is totally okay"

3 Extract the downloaded jdk-xuxxx-linux-x64.tar.gz in the Downloads folder

--> tar -xvzf ~/Downloads/jdk-8u271-linux-x64.tar.gz

Get help from tar --help, manual page using command man tar

--> unzip -l ~/Downloads/jdk-8u271-linux-x64.tar.gz

4 Open the environment file using editors any of your favourite configuration editors nano, vi, etc.,

sudo vim /etc/environment

Then, set-up a variable environment. It might look this

PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/

usr/games:/usr/local/games:/usr/lib/jvm/jdk1.8.0_271/bin"

JAVA_HOME="/usr/lib/jvm/jdk1.8.0_271"

Good, keep going! Basic vi command

i -> insert

visual mode-> For cut, copy and paste.

wq! -> to save and exit

w -> to save and continue editing

a! -> auit

escape -> switch from insertion mode to other operations.

Example: Press escape key

Then shift+semicolon(:) and type wq!

5 Set java location

sudo update-alternatives --install "/usr/bin/java" "java" "/usr/lib/jvm/jdk1.8.0_271/bin/java" 0 sudo update-alternatives --install "/usr/bin/javac" "javac" "/usr/lib/jvm/jdk1.8.0_271/bin/javac" 0 sudo update-alternatives --set java /usr/lib/jvm/jdk1.8.0_271/bin/java sudo update-alternatives --set javac /usr/lib/jvm/jdk1.8.0_271/bin/javac

6 Verify the configuration

export PATH

update-alternatives --list java update-alternatives --list javac

7 Open the bashrc with vi-editor

sudo vi ~/.bashrc

And add the following at the bottom of the file

JAVA_HOME="/usr/lib/jvm/jdk1.8.0_271"

MAVEN_HOME="/usr/share/maven"

PATH=\$PATH:\$HOME/bin:\$JAVA_HOME/bin:\$MAVEN_HOME/bin

export JAVA_HOME

export MAVEN_HOME

"Please, make sure to save the content."

8 Verify the java version and java_home path

java -version && echo \$JAVA_HOME