Set things up...

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
- Precisely, I am looking for java 8
- I need 3 things to perfectly set up the development environment
 - Download java development environment-JDK
 - Download Eclipse IDE, choose the appropriate IDE name "Eclipse for java developers"
 - A text editor which might be helpful to write, solve and execute small instance of problems.

- Download and install java from Oracle websites's download page

- Somehow I learned to use the compression tool "tar". But if I face issue then I would use an interactive GUI to understand file compression and extraction in an interactive way.
- Try to know more about the hardware information before proceeding to install software programs.

Getting started with 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 to remove specified directories from the stack popd

"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

 $tar\ \text{-xvzf}\ \text{\sim/Downloads/jdk-8u271-linux-x64.} tar.gz$

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

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/games:/usr/local/games:/usr/lib/jym/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! -> quit

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

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

export PATH

"Please, make sure you save the content."

8 Verify the java version and java_home path

java -version && echo \$JAVA_HOME