

Java Environment

Rajasekaran. S
Assistant Professor
Dept of IT

Git Hub: <https://github.com/rajasekaranap/CS8382-OOPS>

Java Environment

Setting up Java Environment for Development
in
Windows OS

Java Environment

- ◆ Are you?
 - ◆ Java Programs User?
 - ◆ Only you need Java Runtime Environment [JRE].
 - ◆ It contains sufficient environment that can run java programs.
 - ◆ But you can't create your own java programs.

Java Environment

- ◆ Java Developer
 - ◆ You need Java Development Toolkit Packages [JDK].
 - ◆ You need a good text editor like [Notepad, Notepad++].
 - ◆ If you going work with a project then you can choose IDE's like [*Eclipse, Netbeans...*].
 - ◆ Download all your needs and be ready for set up.

JDK

- It provides the environment to create and execute java programs.
- JRE is included with JDK.
- You can find latest version of jdk in this link.
 - ◆ <http://www.oracle.com/technetwork/java/javase/downloads/index.html>

JDK and it's variations

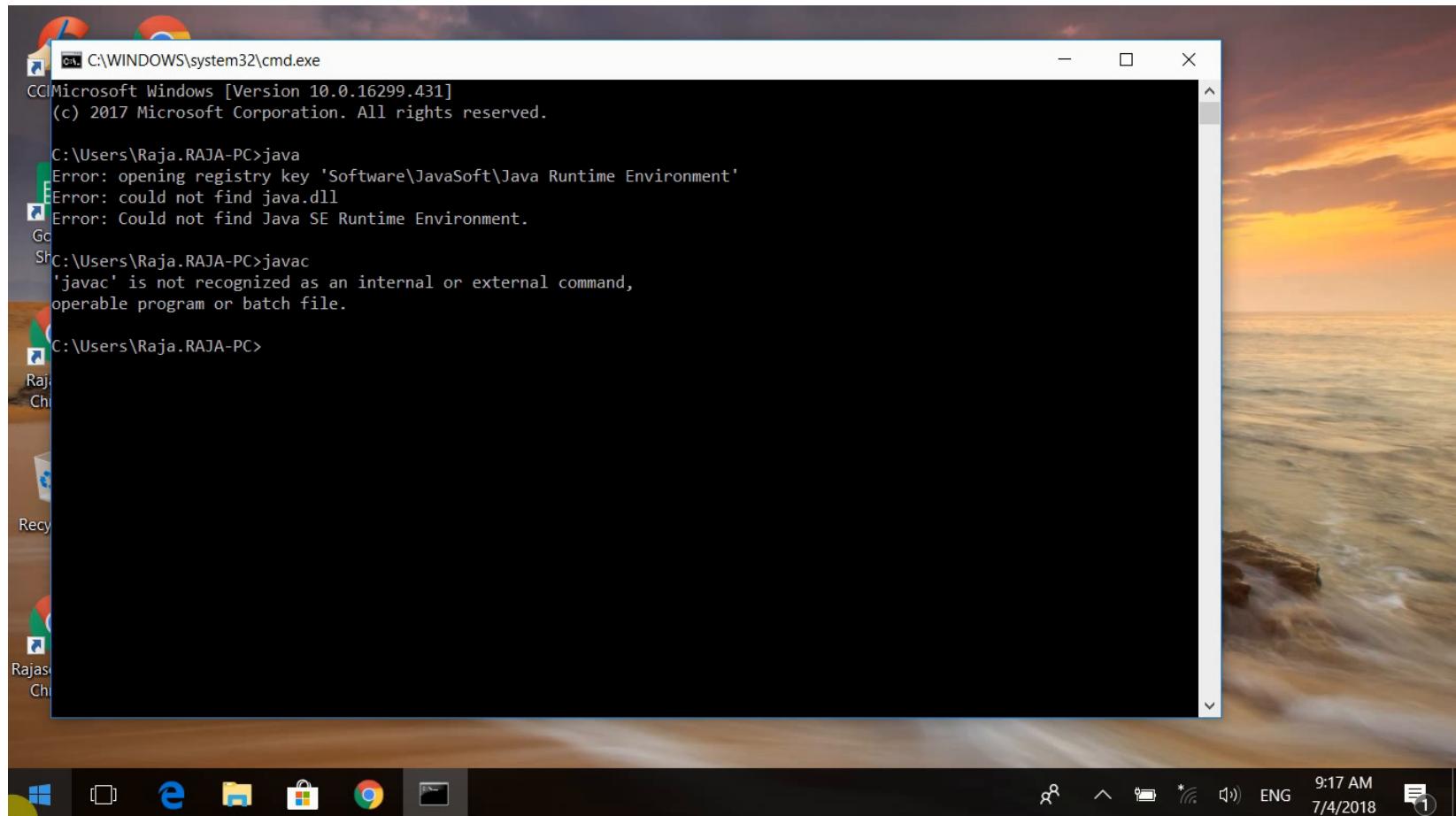
Java SE Development Kit 10.0.1

You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

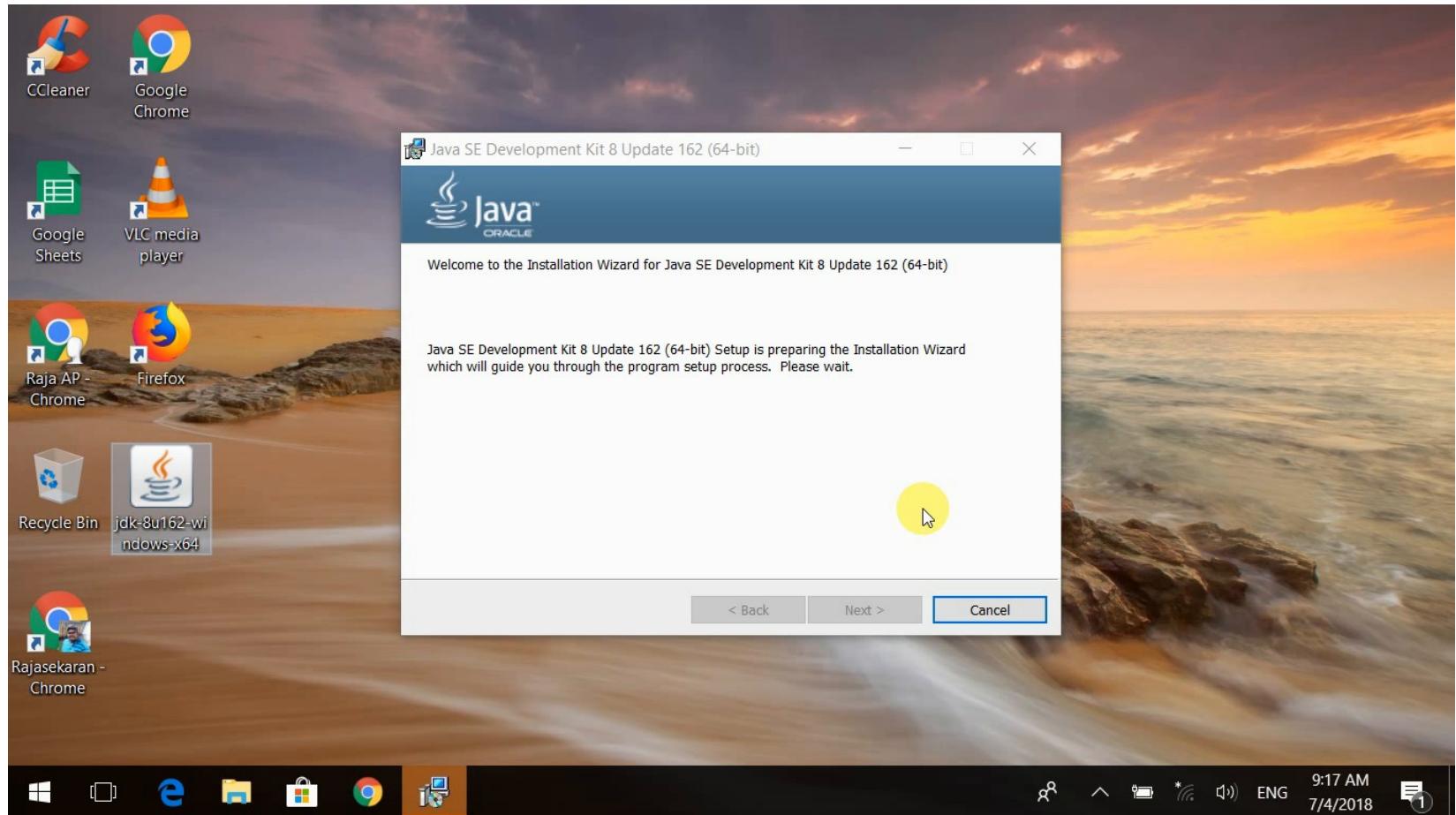
Accept License Agreement Decline License Agreement

Product / File Description	File Size	Download
Linux	305.97 MB	jdk-10.0.1_linux-x64_bin.rpm
Linux	338.41 MB	jdk-10.0.1_linux-x64_bin.tar.gz
macOS	395.46 MB	jdk-10.0.1_osx-x64_bin.dmg
Solaris SPARC	206.63 MB	jdk-10.0.1_solaris-sparcv9_bin.tar.gz
Windows	390.19 MB	jdk-10.0.1_windows-x64_bin.exe

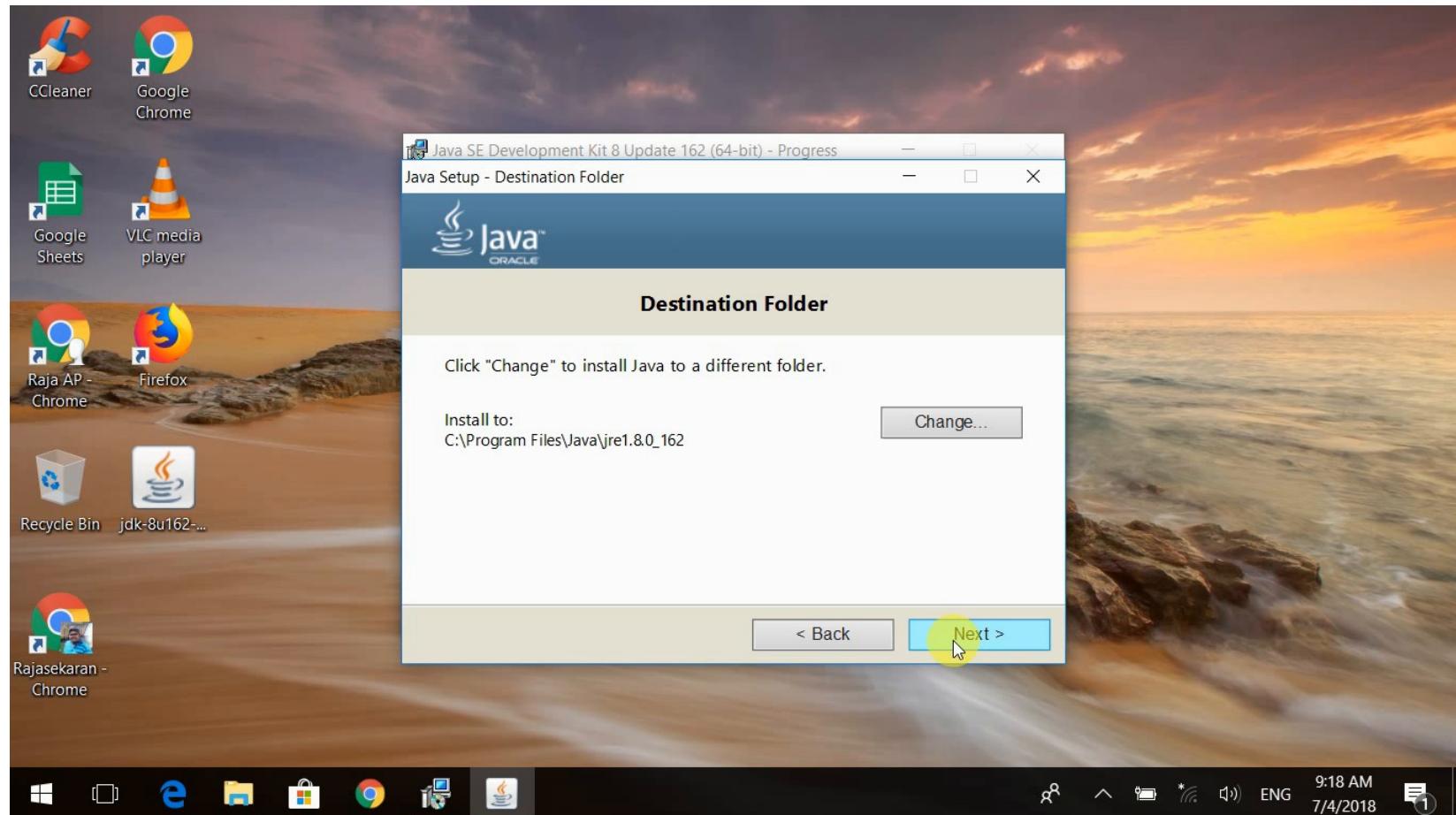
Checking for Java



Installing Java



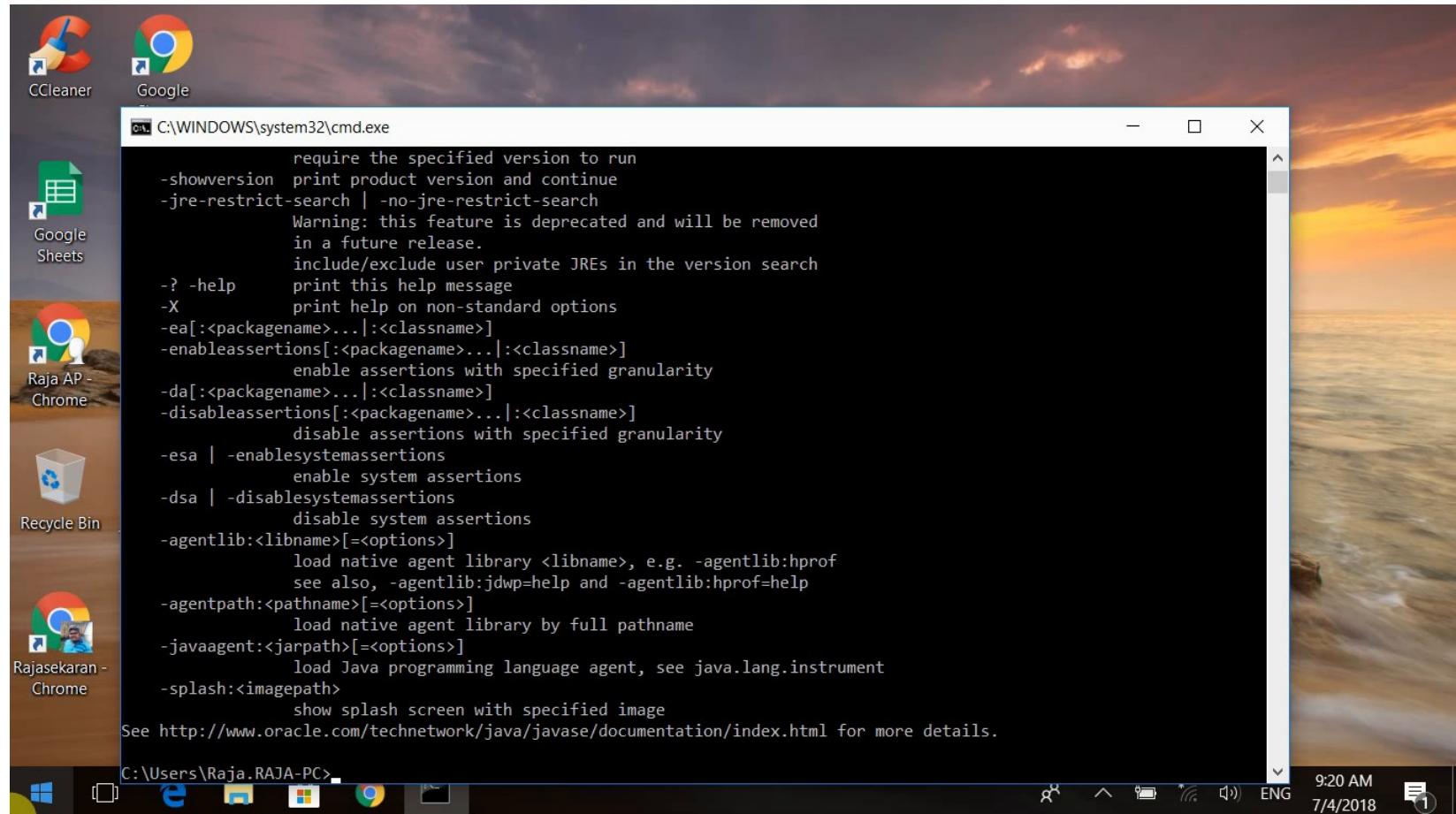
JRE Instalation



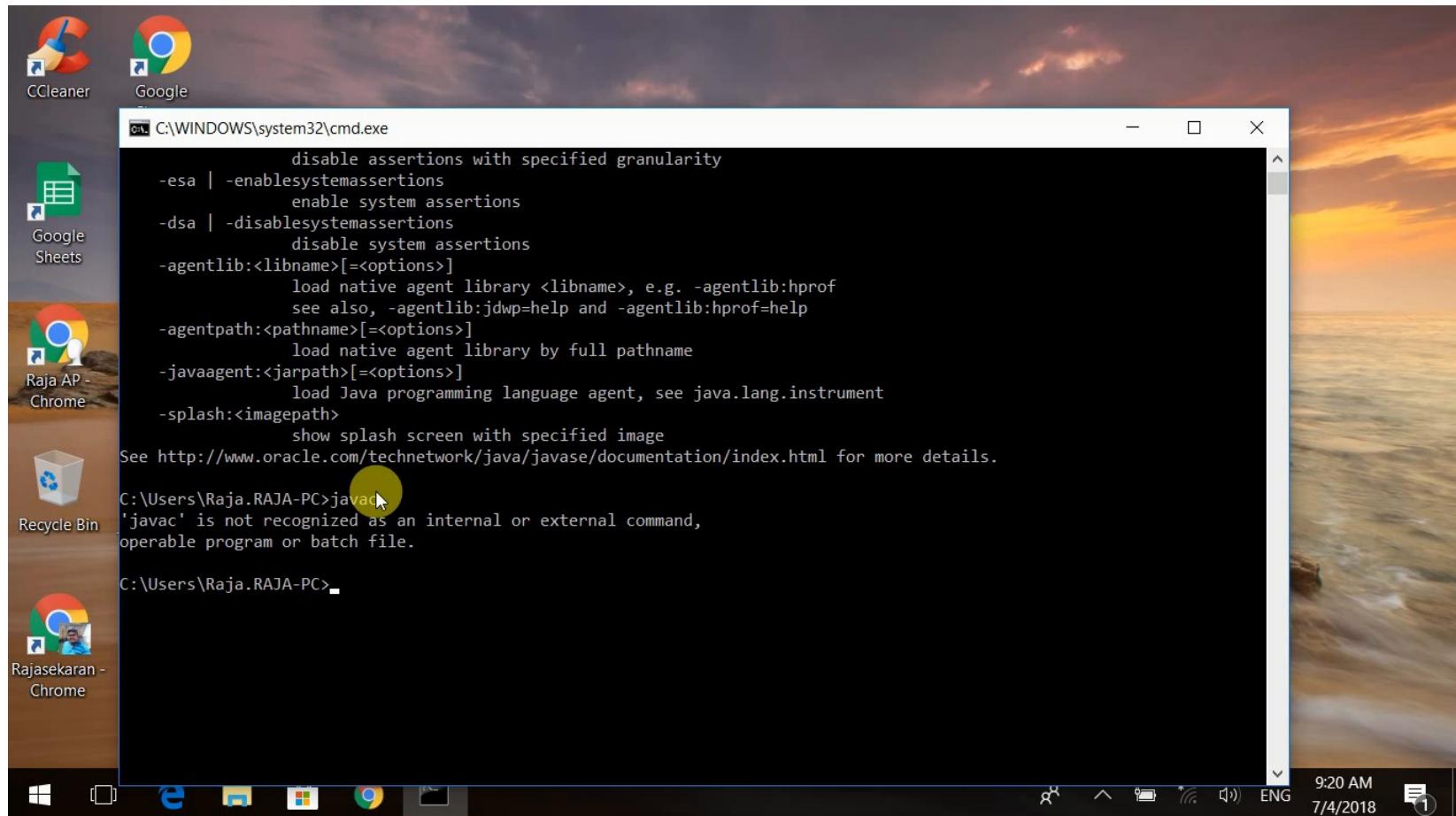
Installing



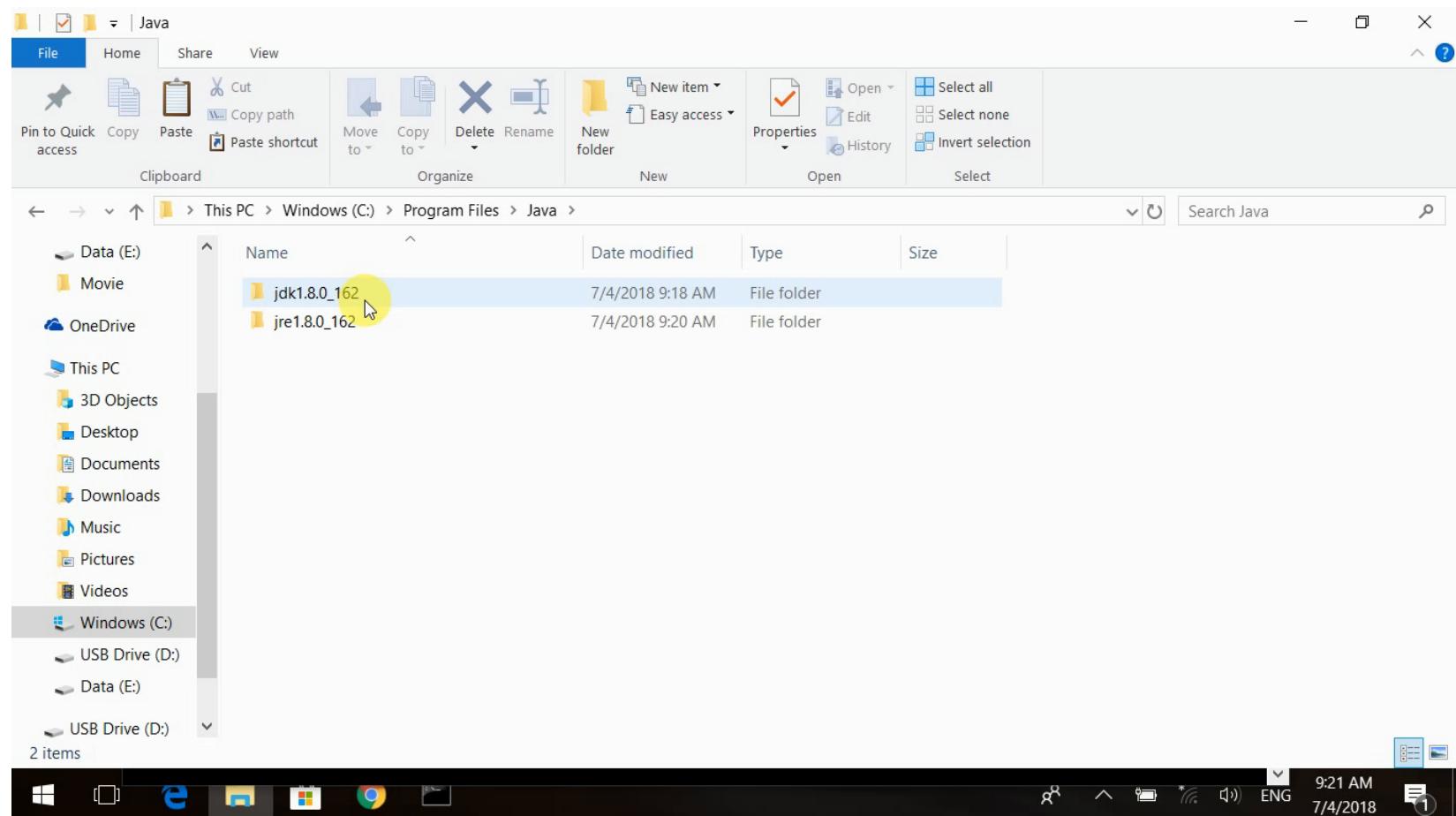
Java command working



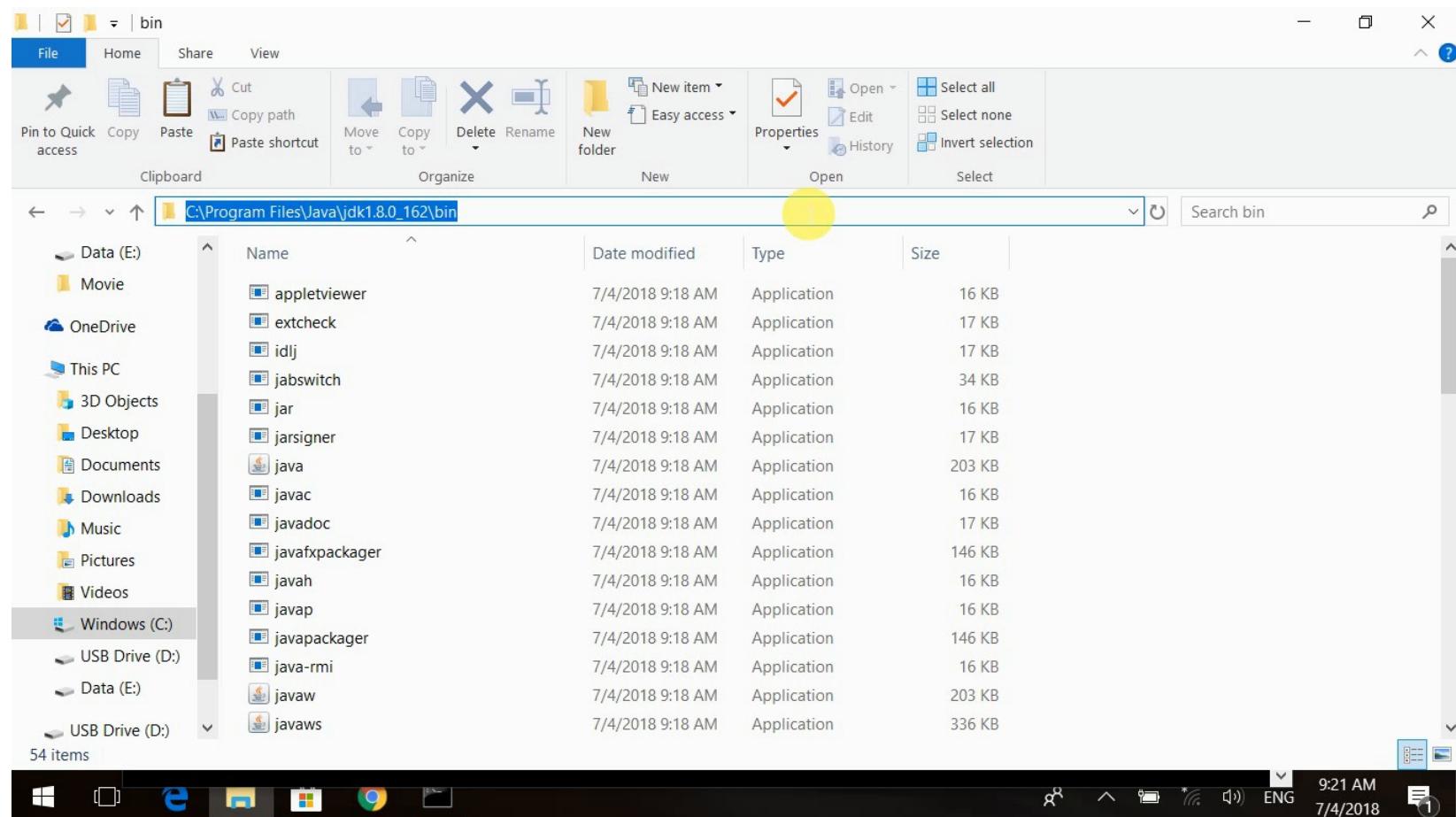
Javac not yet working



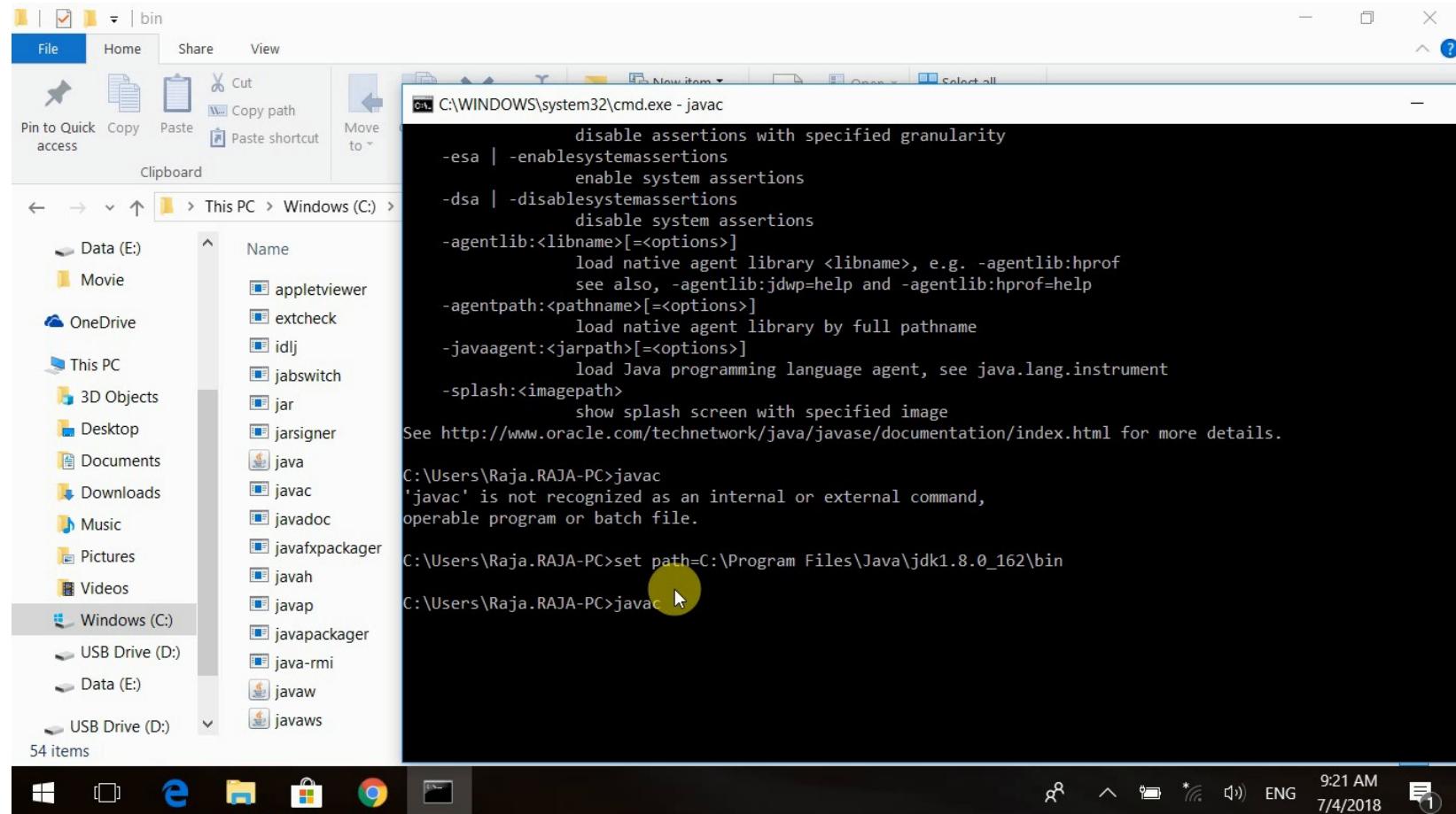
Jdk found but why javac not working



Copy Path

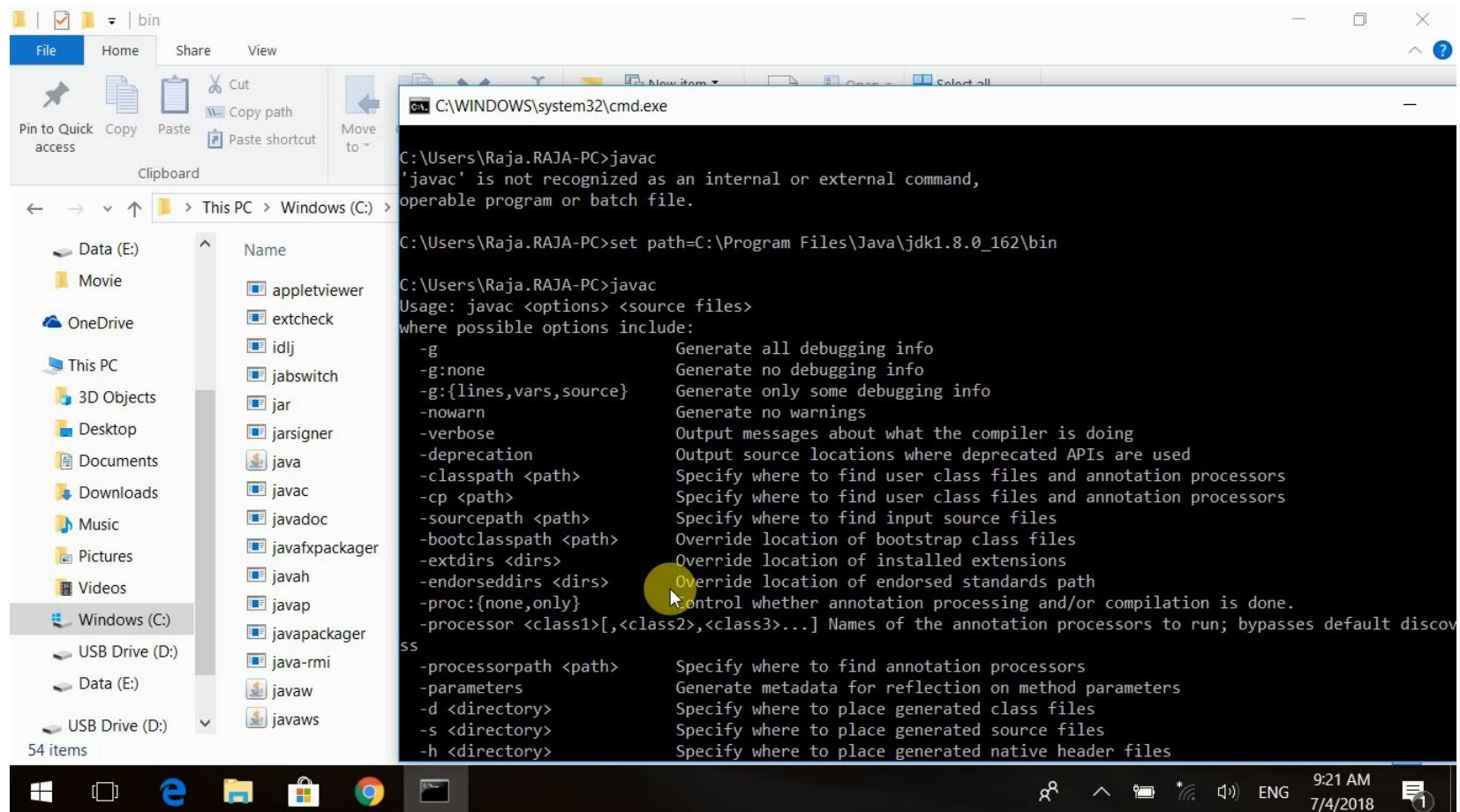


Do *set path =“jdkpath”*



```
set path="C:\Program Files\Java\jdk1.8_162\bin"
```

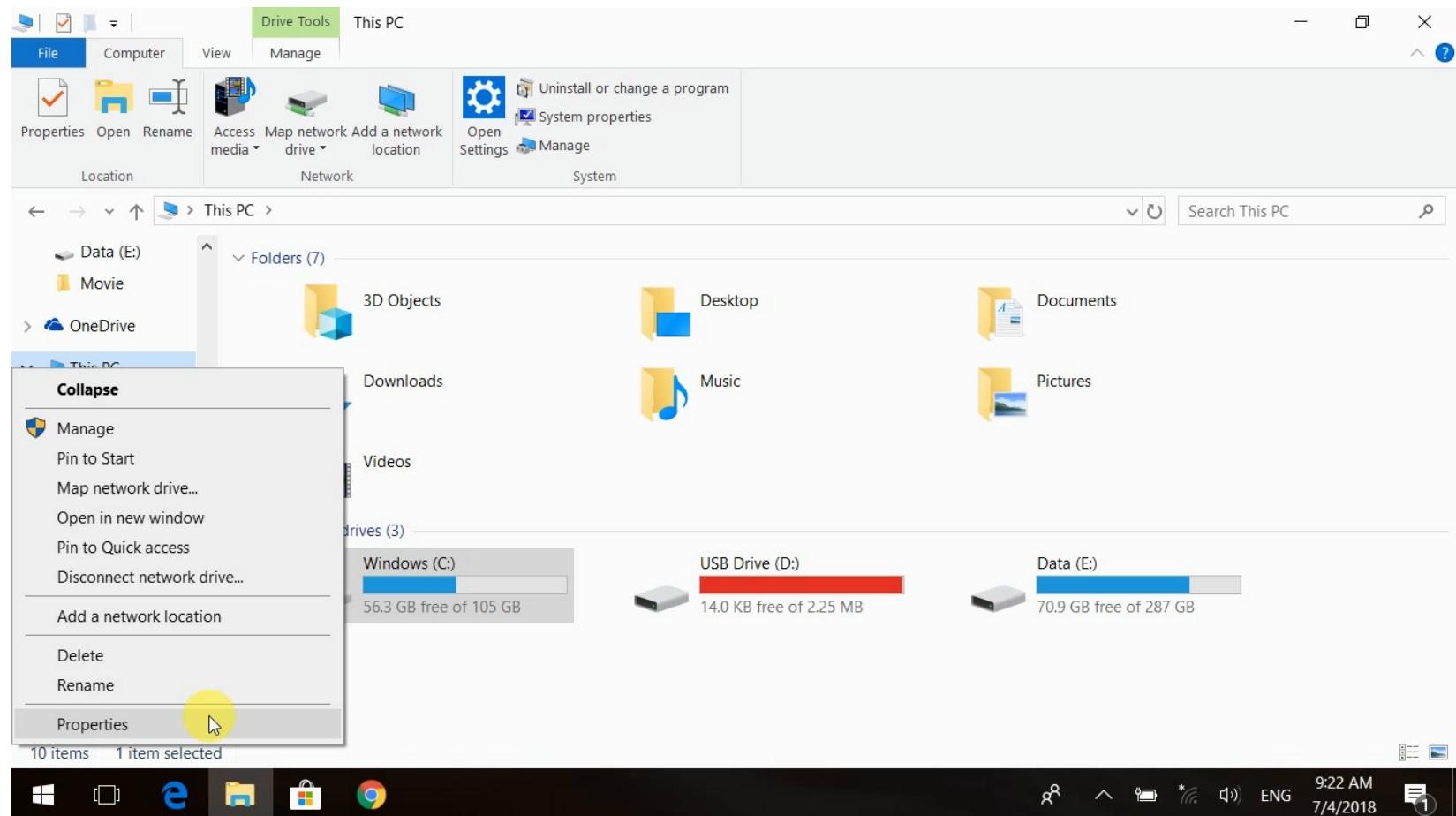
Now javac working



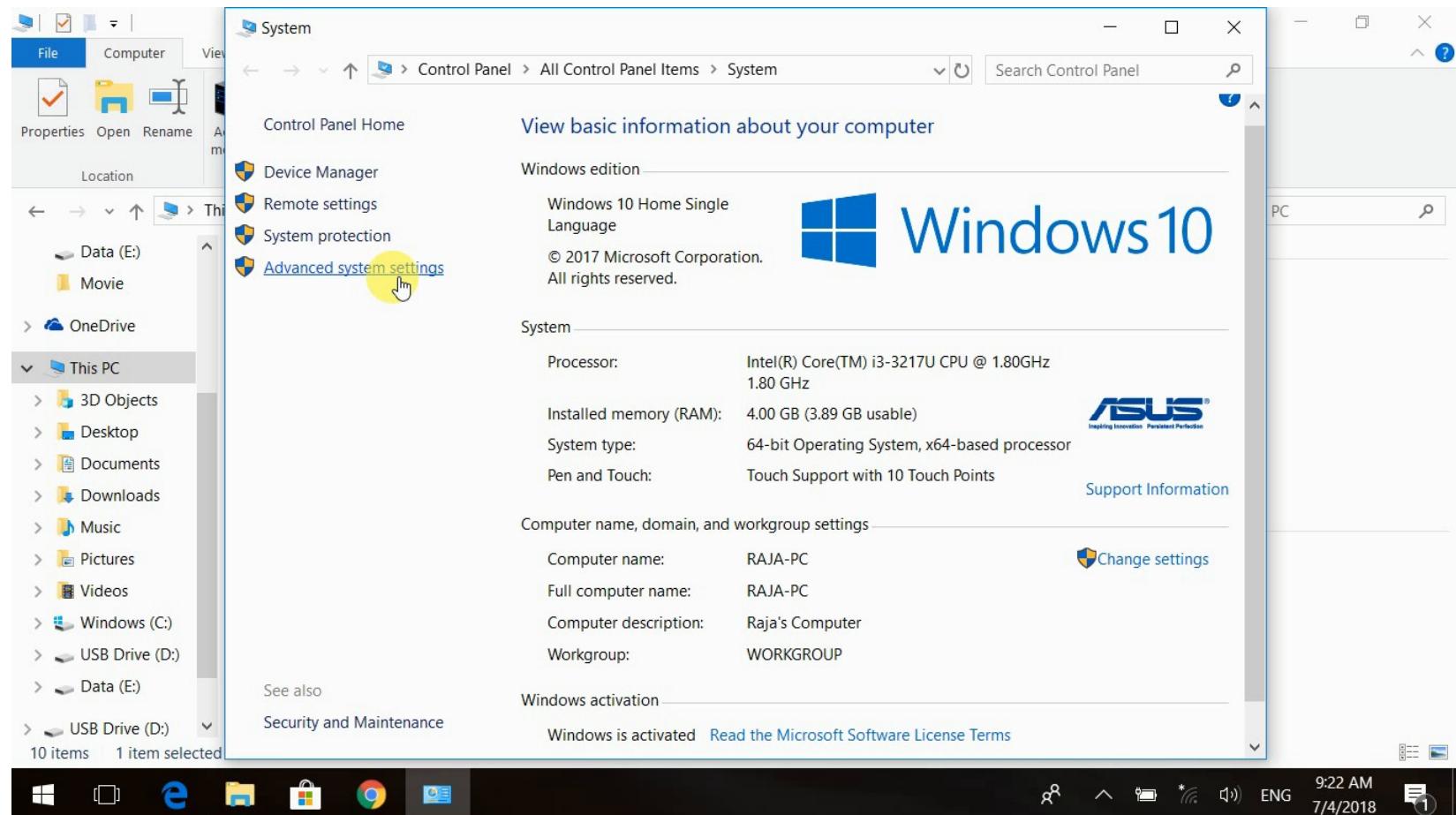
Limitations

- You have to set a path every time cmd promt lanches.
- This not confortable when you do rapid coding.
- Let advise cmd promt to take care of javac commands.
- *For the we need to set enviroment variable java.*

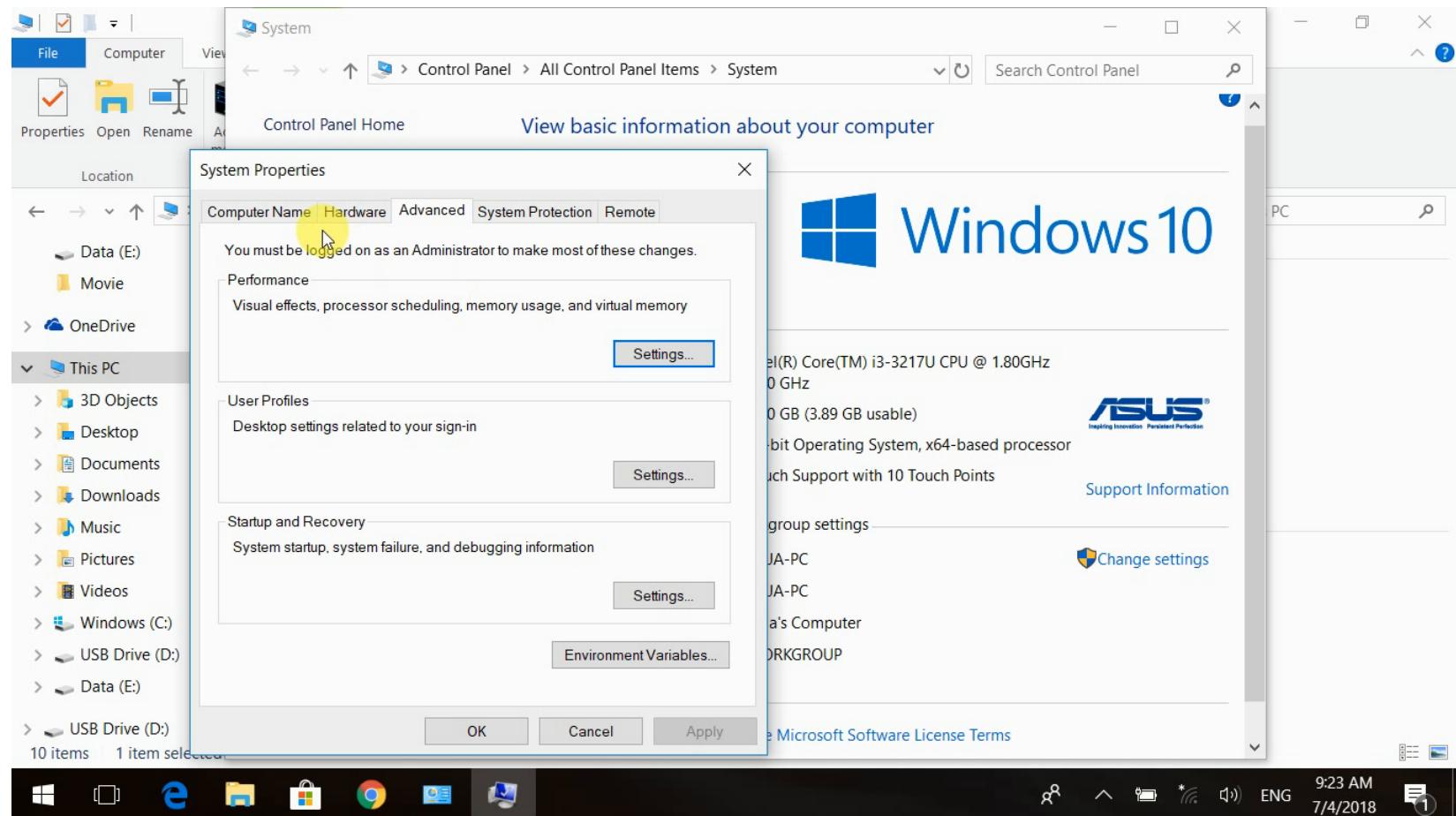
System Properties



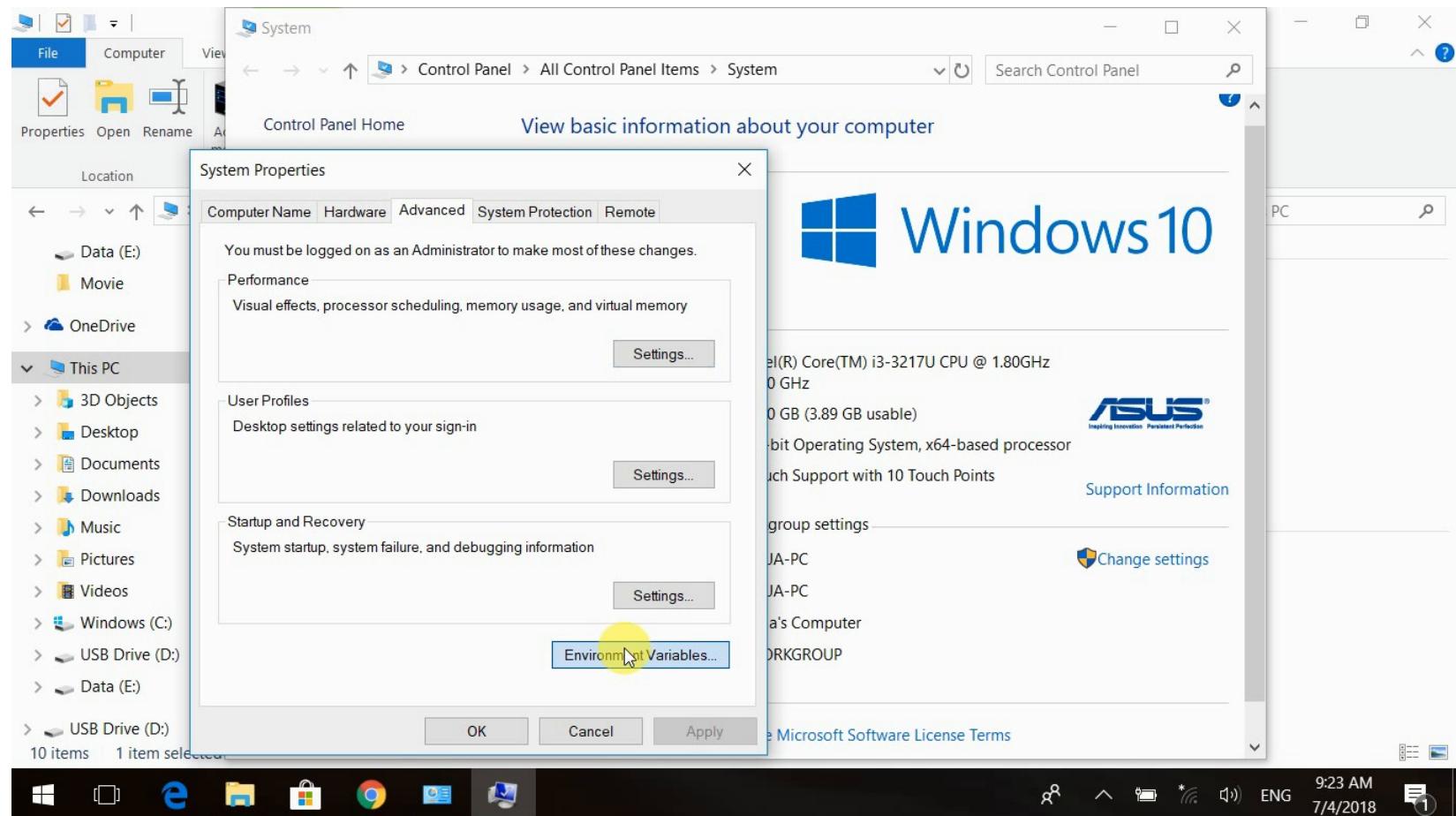
Advanced Settings



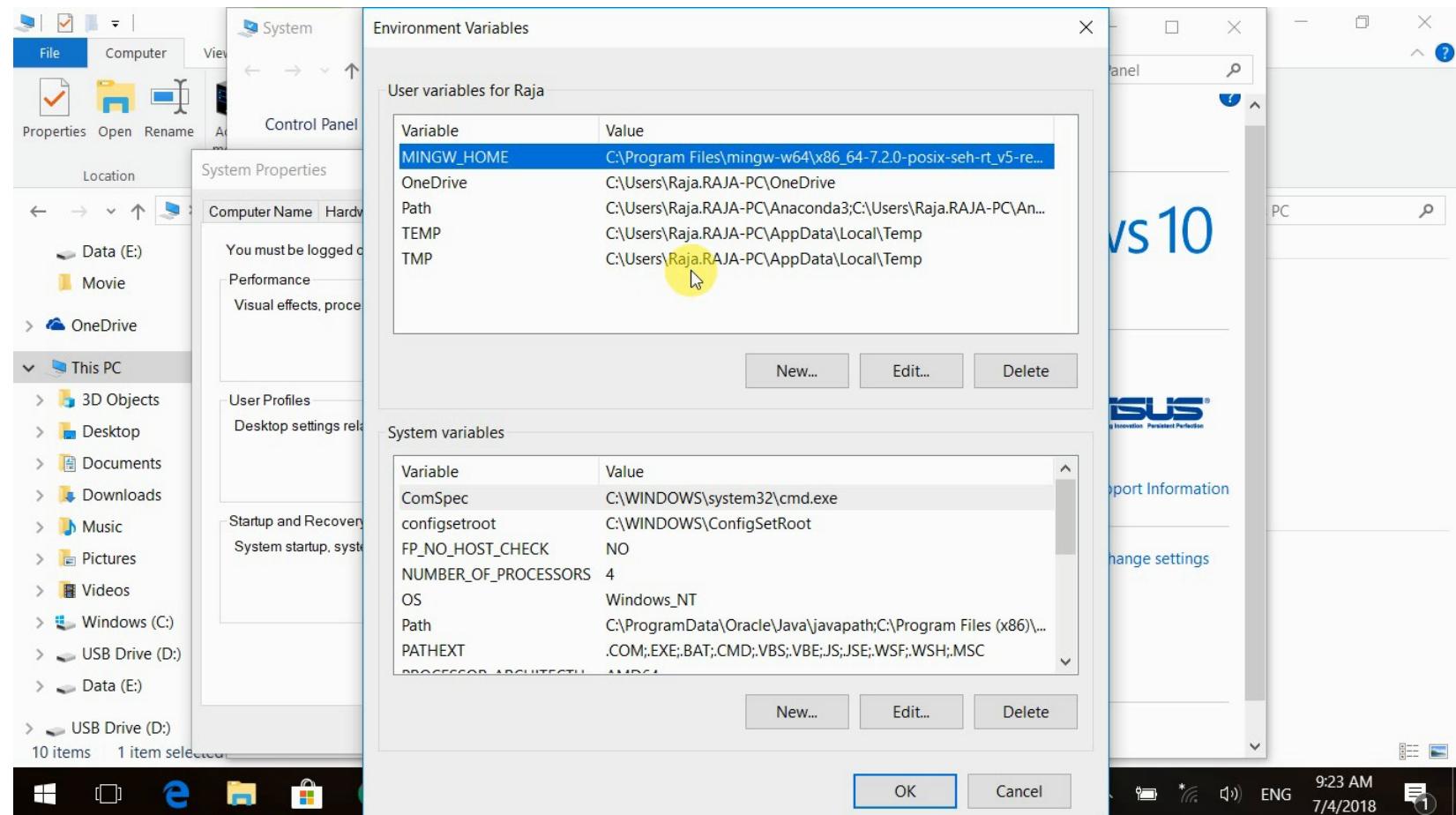
Advanced Tab



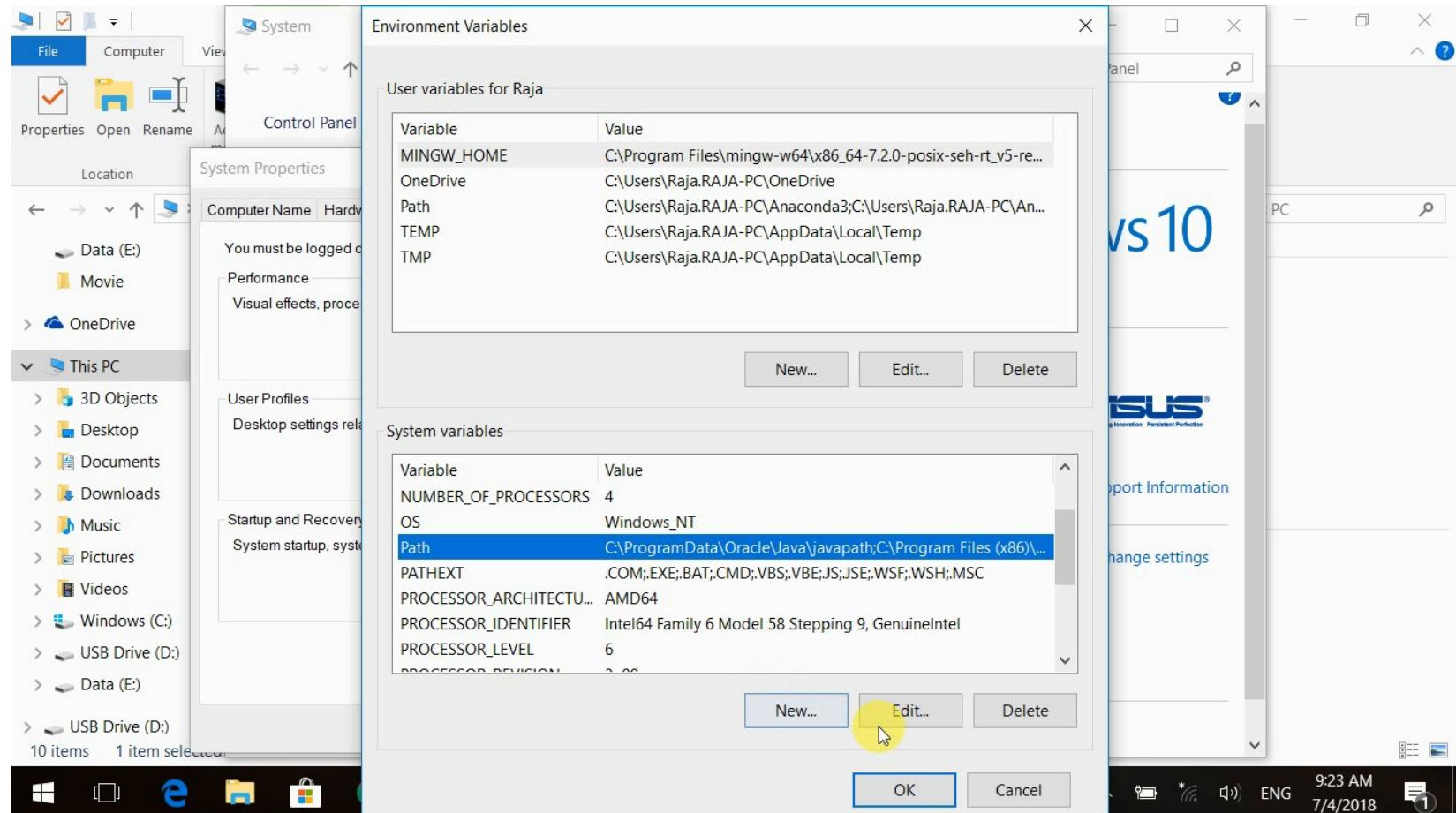
Click Environment Variables



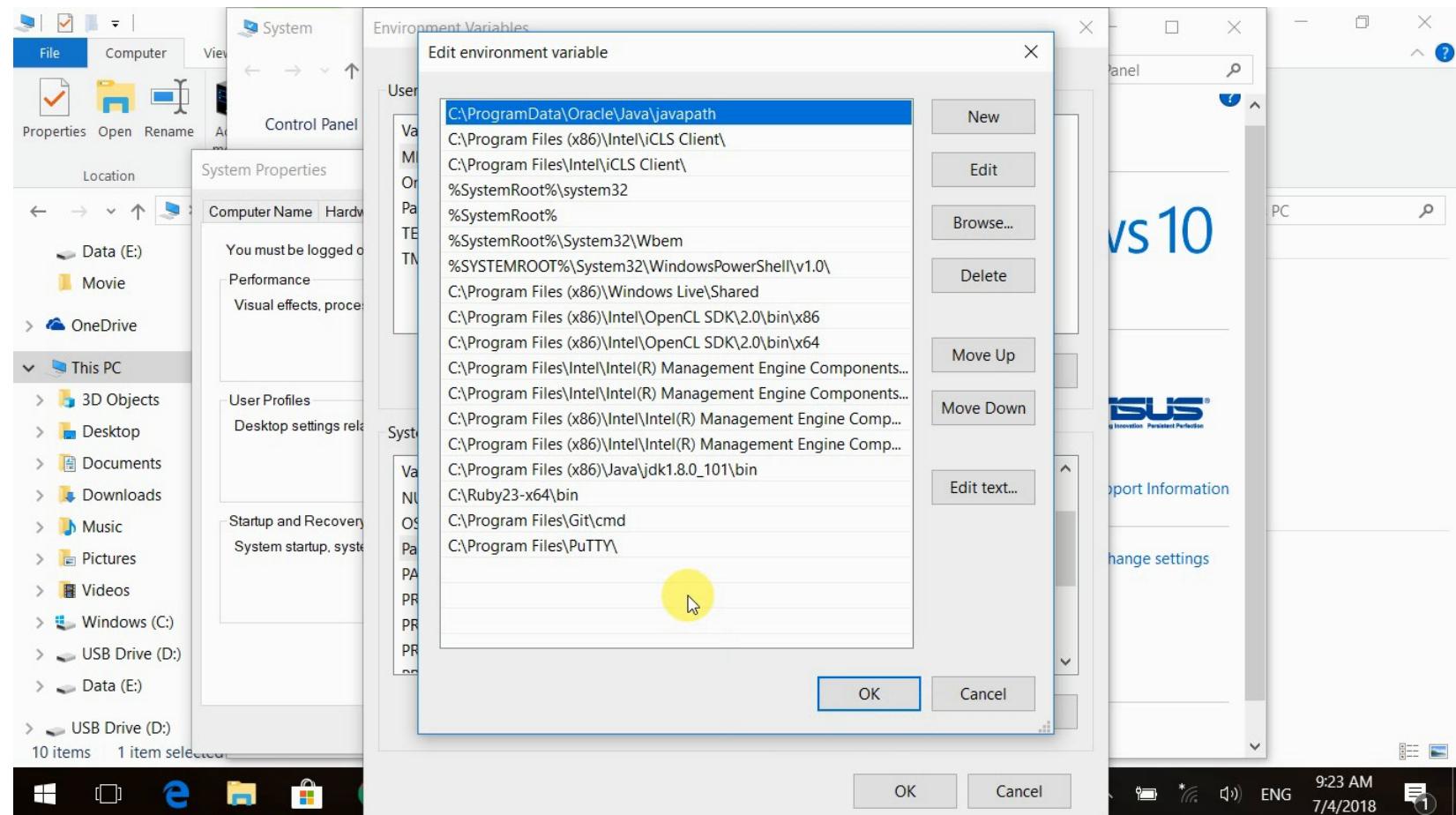
Find Path Variable



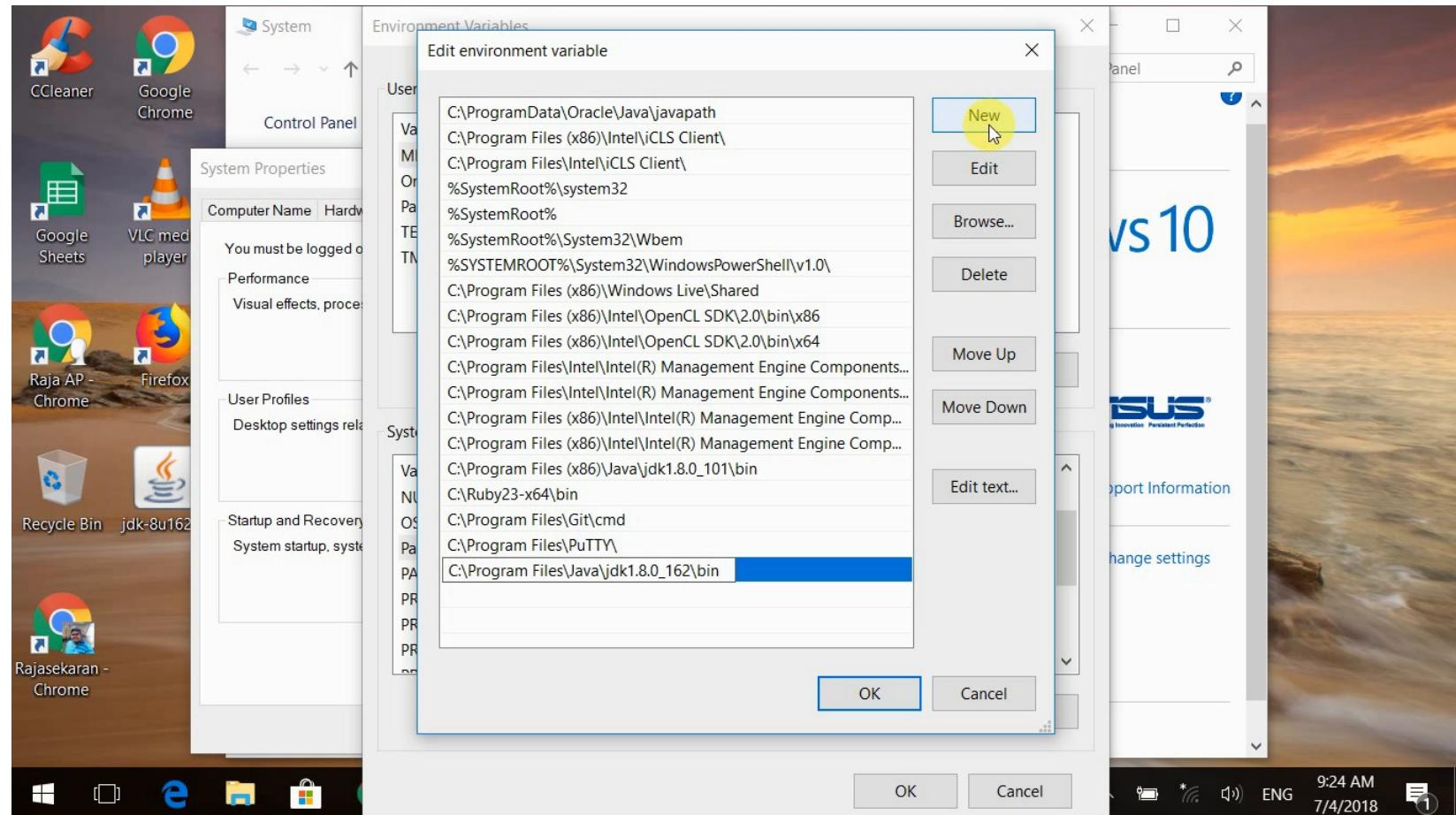
Path Found in System Variables



Let us understand this

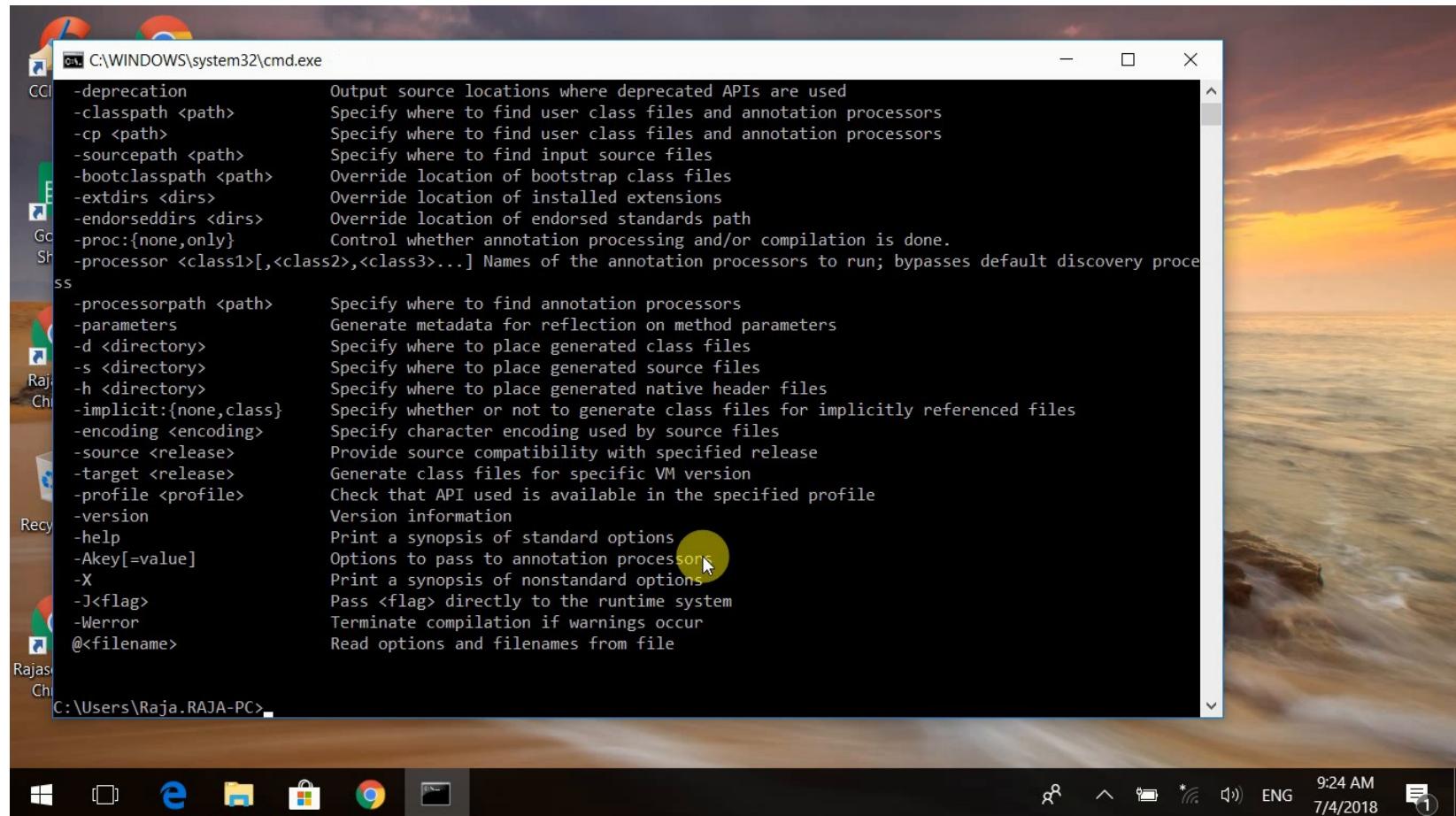


Adding Javapath to Path variable



C:\Program Files\Java\jdk1.8.0_162\bin

Now javac working



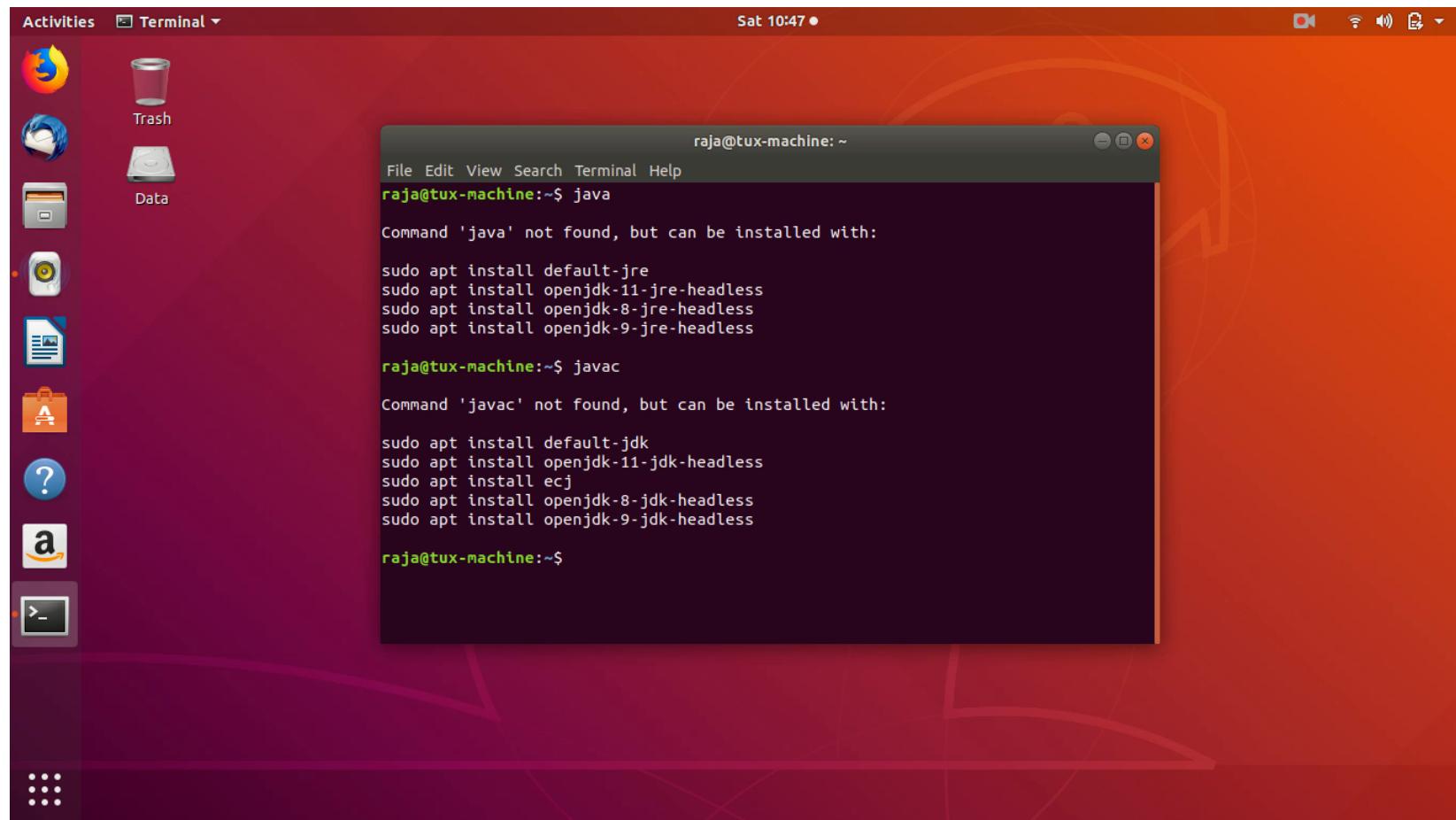
No need to do set
path anymore

Your Java Environment up
and ready for
development

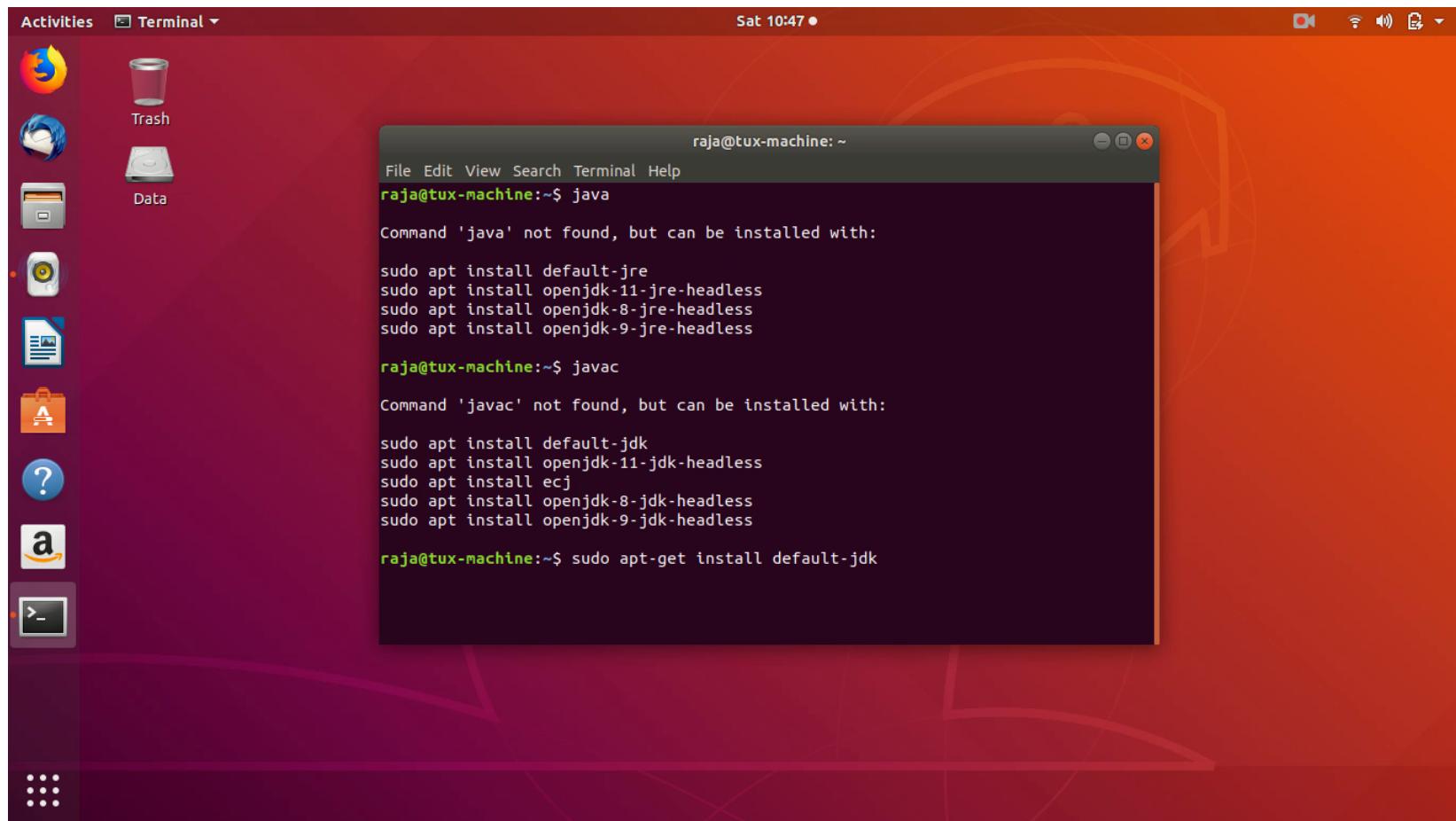
Java Environment

Setting up Java Environment for Development
in
Linux OS

Checking for Java and Javac

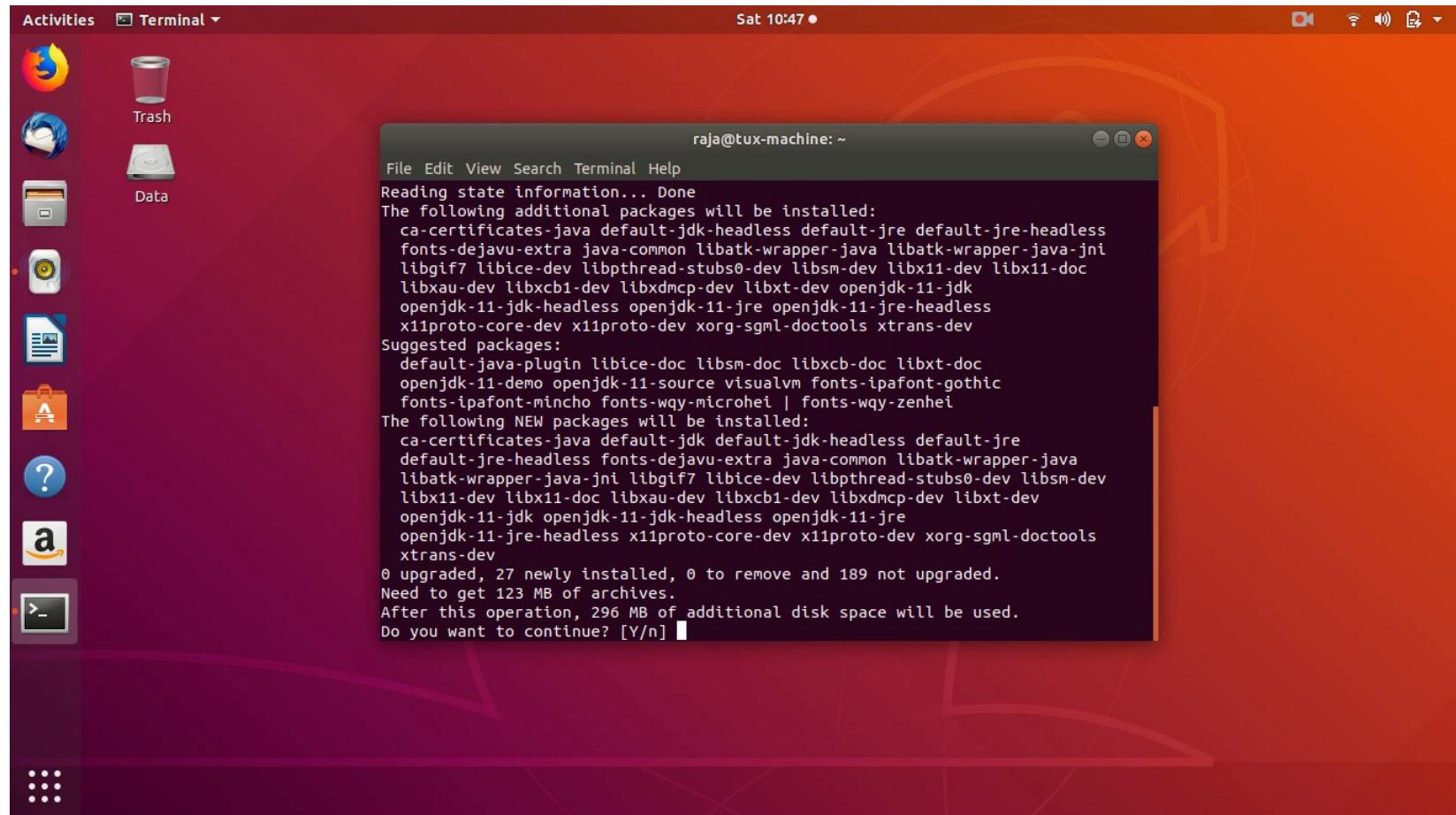


Running APT-GET



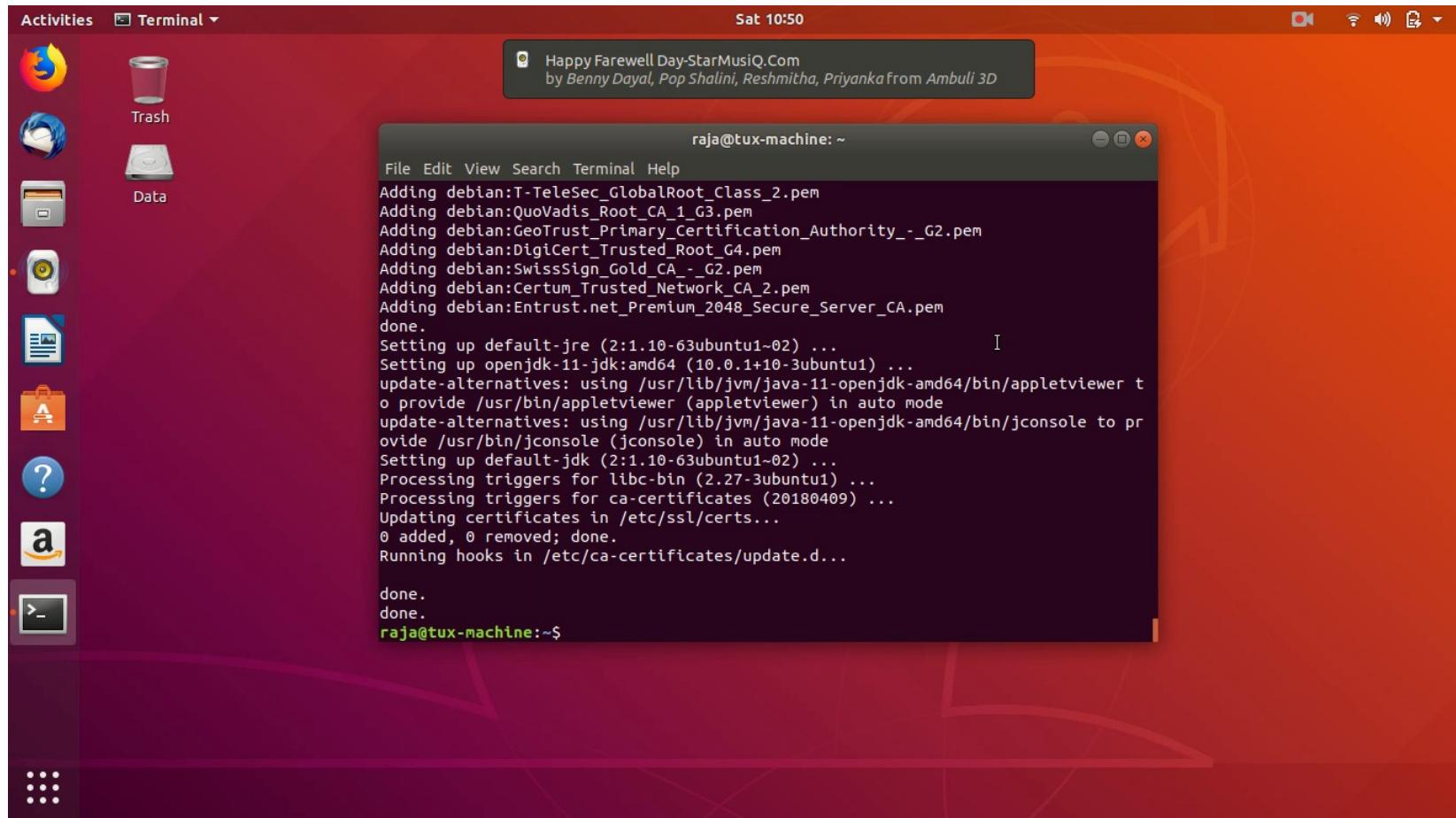
```
sudo apt-get install default-jdk
```

Dependencies and Permission to Install

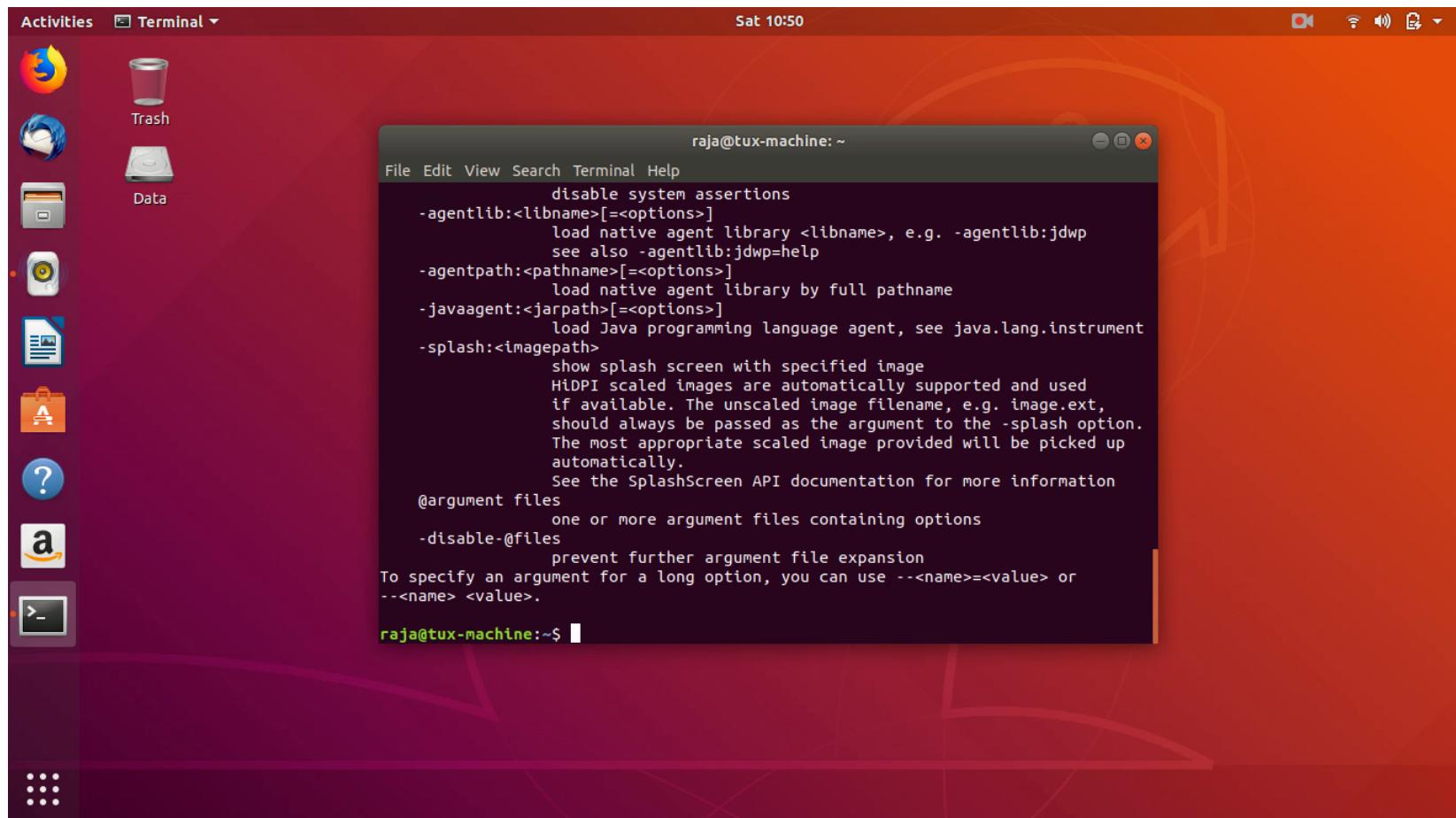


Give Yes = Y + Enter

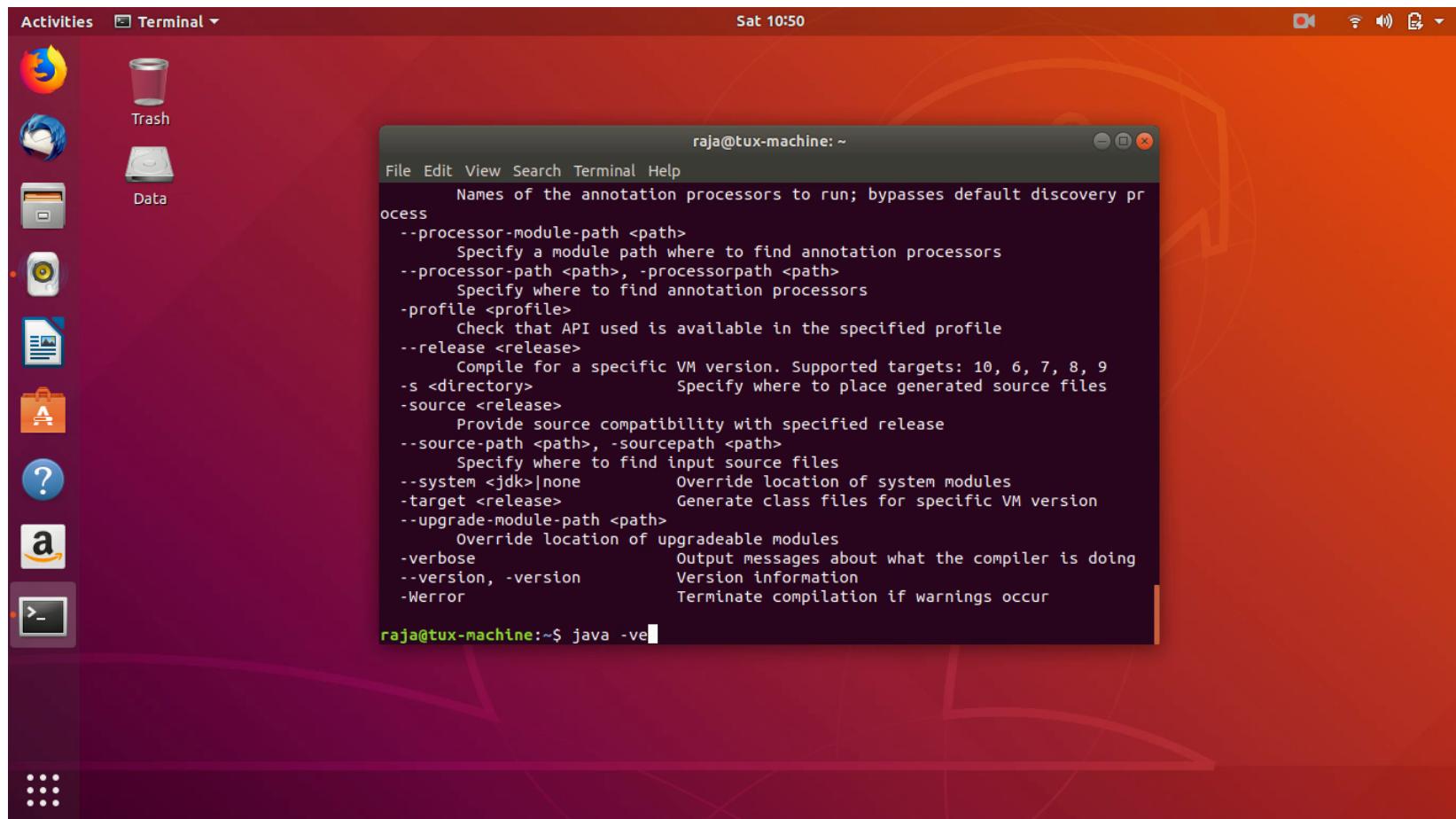
Installation Done



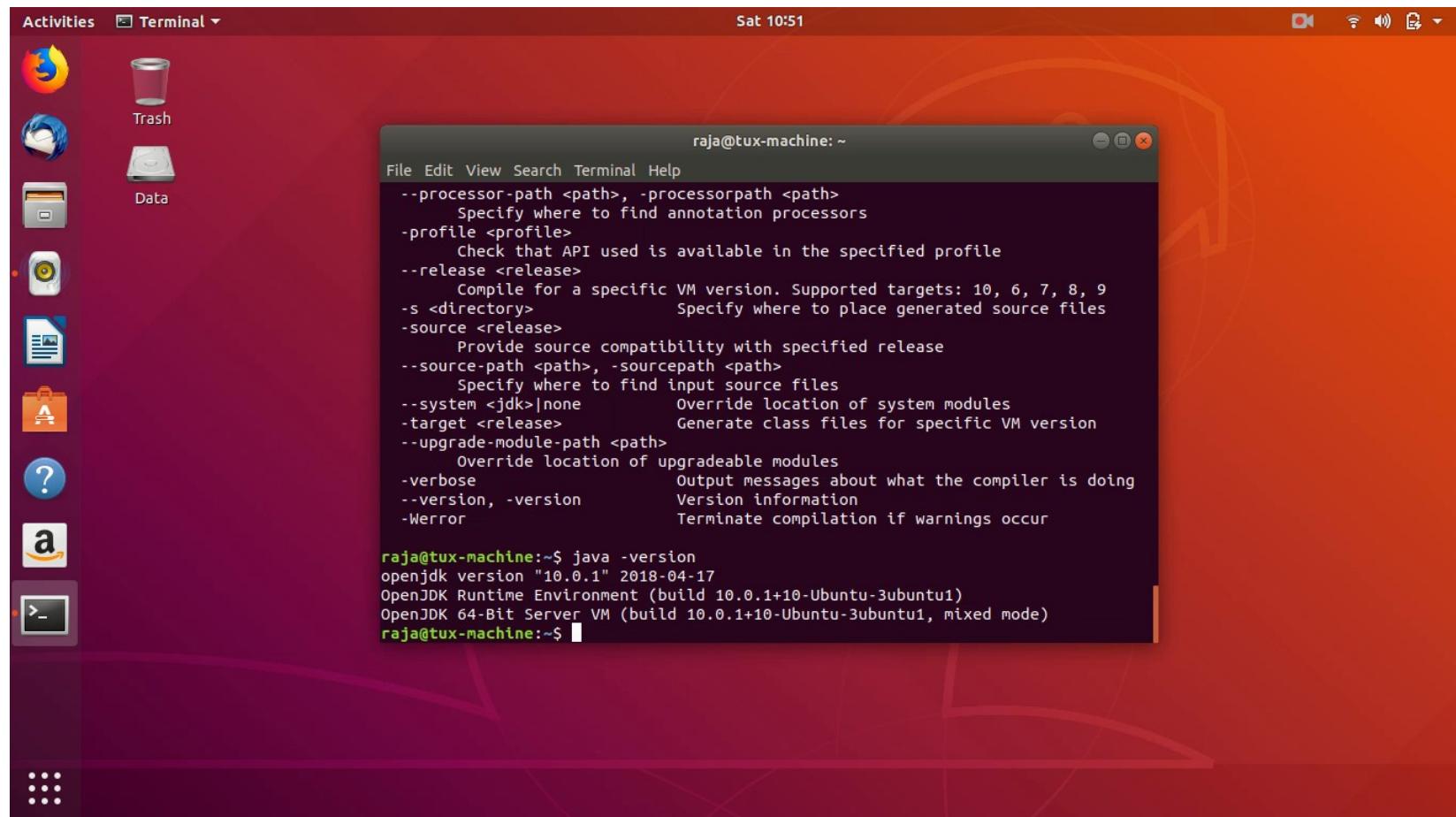
Checking for Java



Checking for Javac



Checking for Java Version



We have Done !!!

Live Demo

Window OS

<https://youtu.be/5FhWHTRtP8Q>

Linux OS

https://youtu.be/XxQ_A-XSM_o

Thank You !!!

Rajasekaran S

AP/IT

KGISL Institute of Technology
[email:proffraja@gmail.com](mailto:proffraja@gmail.com)