

SOFTWARE CONFIGURATION

Java & Eclipse (Window OS)

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JDK Installation

Note:

- We need JDK 1.7 or above version for our training activities. If you have already installed any jdk version above 1.7, then you are good to go.
- Those who are installing jdk from scratch, they can go with jdk 1.8 (high recommendable) which is more stable version of java with all other automation tools which we are going to use in this training.

(1) Firstly check whether java is configured in your system or not:

Go to command prompt and type java -version

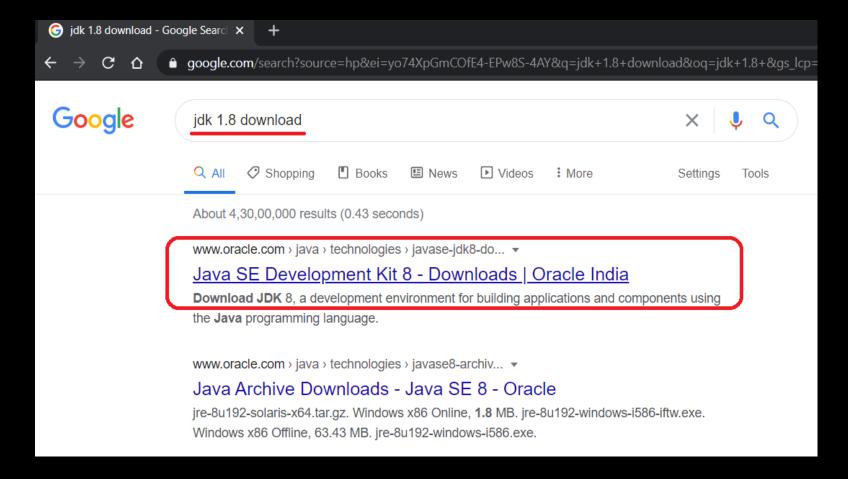
```
Microsoft Windows [Version 10.0.18363.900]
(c) 2019 Microsoft Corporation. All rights reserved.

c:\Users\akshay>java -version
'java -version' is not recognized as an internal or external command, operable program or batch file.

C:\Users\akshay>
```

If you get 'java -version' is not recognized command, then you need to download and configure jdk in your system.

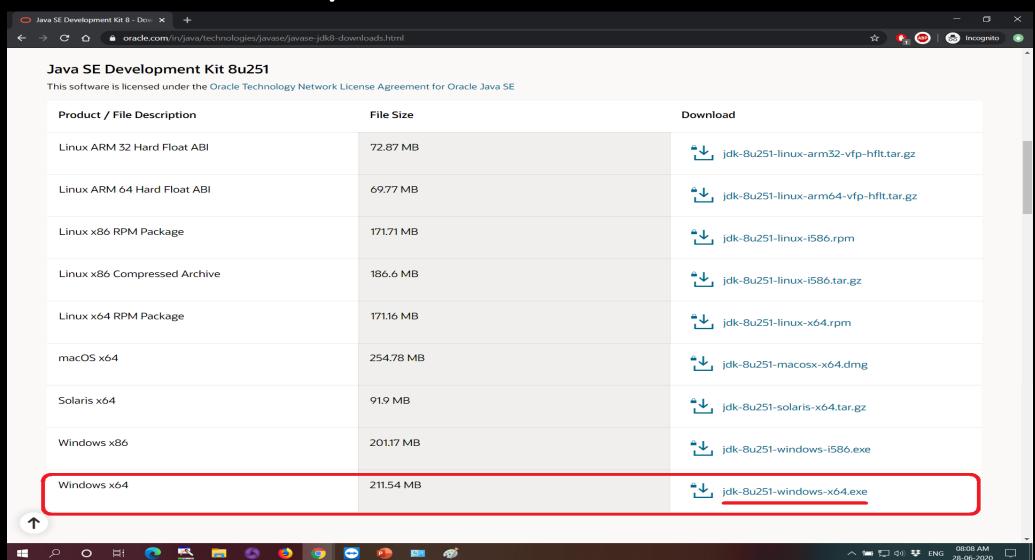
(2) Go to Google and search for jdk 1.8 download.



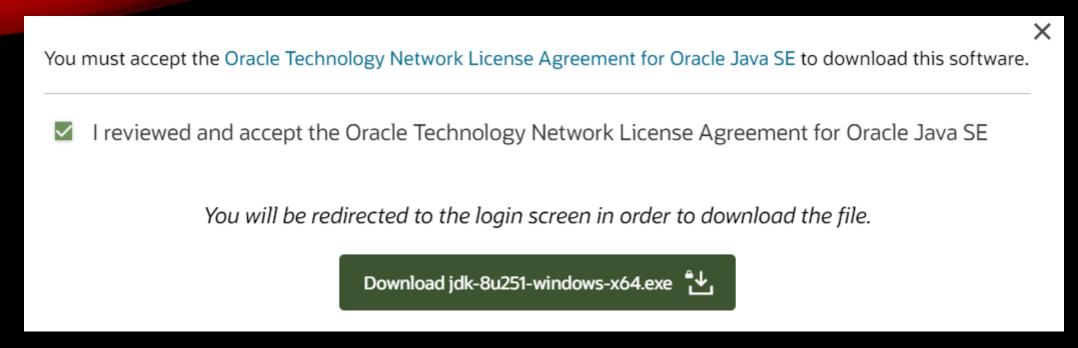
Click on first link to download jdk setup file.

Based on your operating system download the jdk file from Java SE Development Kit 8u251.

Example: In my case, I am having Window 10 64 bit OS, so I have downloaded win x64 software for jdk.



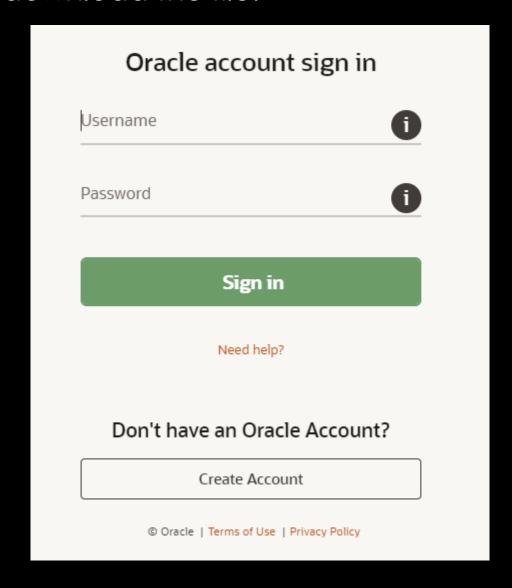
Once you click on the file to download, it will ask you to accept the Oracle agreement.



Click on the check box and click on download button to download the file.

After clicking on download button it will redirect you to login into oracle account to download the file.

If you have oracle account then get login into oracle account to download the file, and if you don't have existing oracle account then create an oracle account to download the file.



Use dummy details for your Work Phone, Company Name and Address field only.

Create Your Oracle Account Already have an Oracle Account? Sign In akshay.kumar@tekarch.com Your email address is your username. Email Address * We will email a confirmation to you Passwords must have upper and lower case letters, at least 1 Password * number, not match or contain email, and be at least 8 characters Password meets requirements **②** Retype password * Country * Akshay Engineer Job Title 9876543210 Work Phone * Company Name * Address * City* CA State/Province* California ZIP/Postal Code * You may opt-out of all marketing communications: Unsubscribe. By clicking on the "Create Account" button below, you understand and agree that the use of Oracle's web site is subject to the Oracle.com Terms of Use. Additional details regarding Oracle's collection and use of your personal information, including information about access, retention, rectification, deletion,

Create Account

security, cross-border transfers and other topics, is available in the Oracle Privacy Policy.

Once your oracle account get created, jdk file will automatically get downloaded.

(4) Install the JDK in your system:

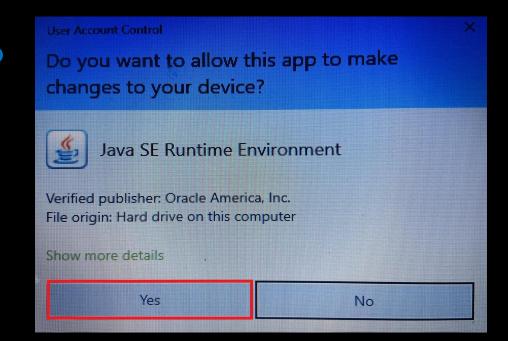
Run (open) your jdk installer file (setup file) to install.



Once you run the setup file it will display the message on your screen that

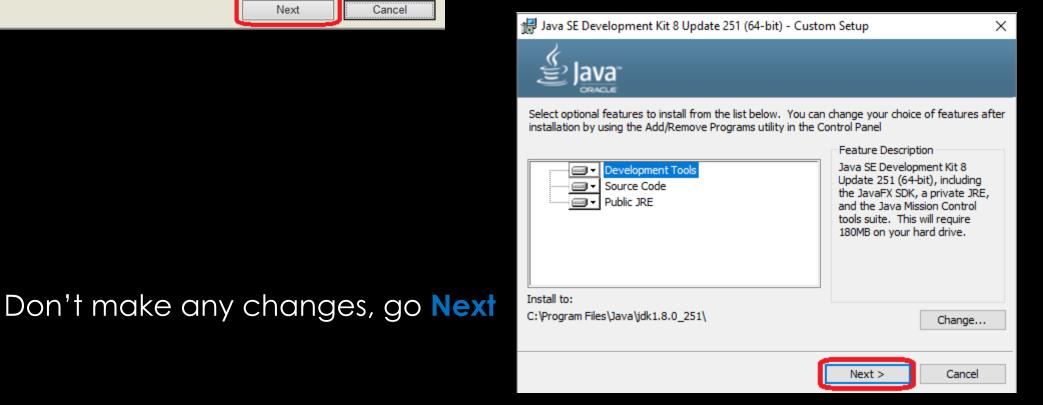
Do you want to allow this app to make changes to your device?

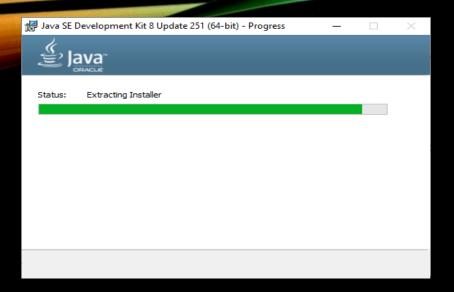
Click Yes to proceed with installation.

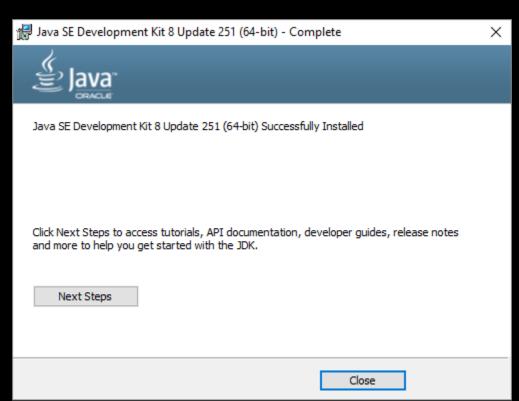




Click on Next to proceed.

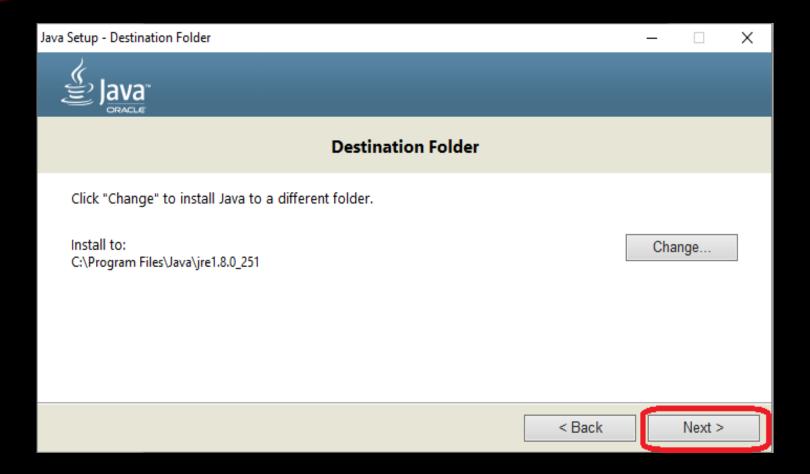






Click on Close button.

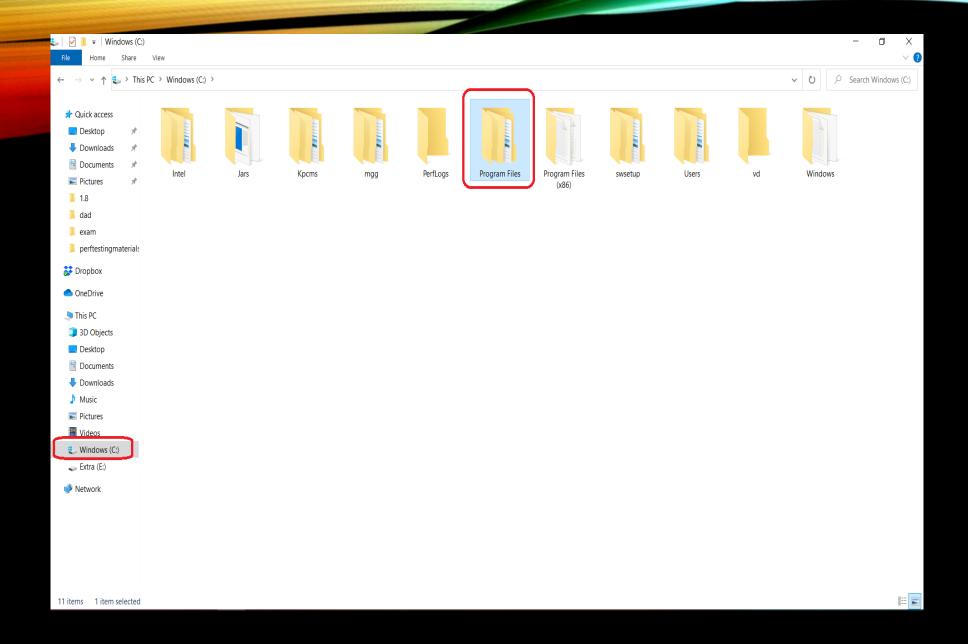
One new window will be open automatically for JRE installation.



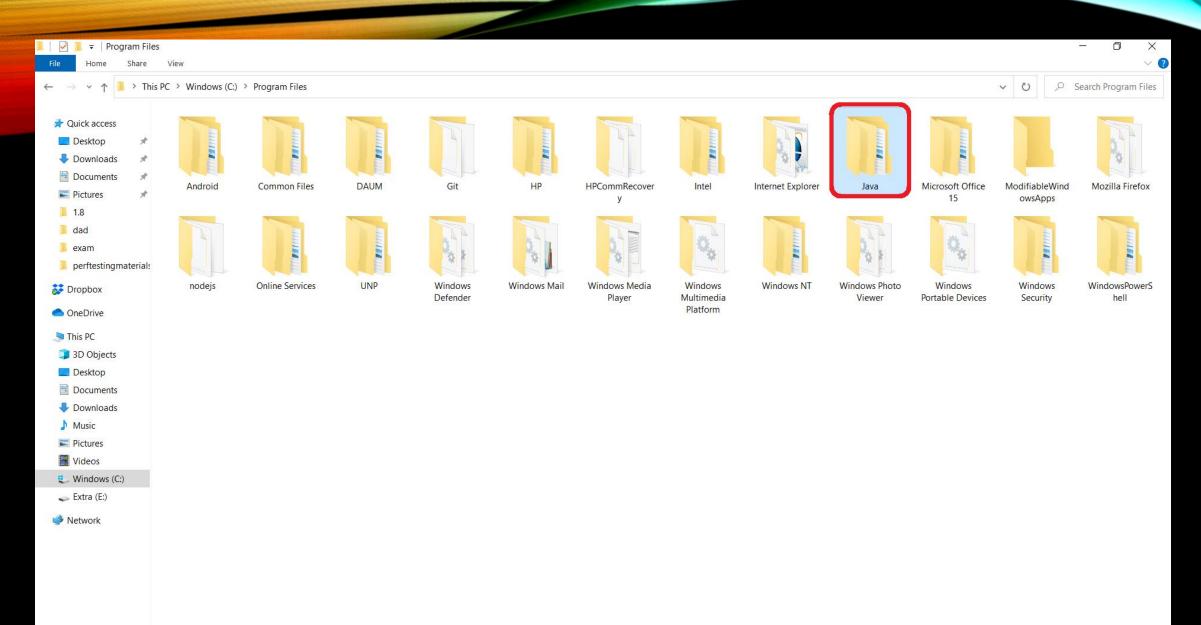
Click on Next button to proceed with JRE installation.



Note: Once the JDK and JRE get installed, one **Java** folder will be created inside **Program Files** in **C driver** of your system.

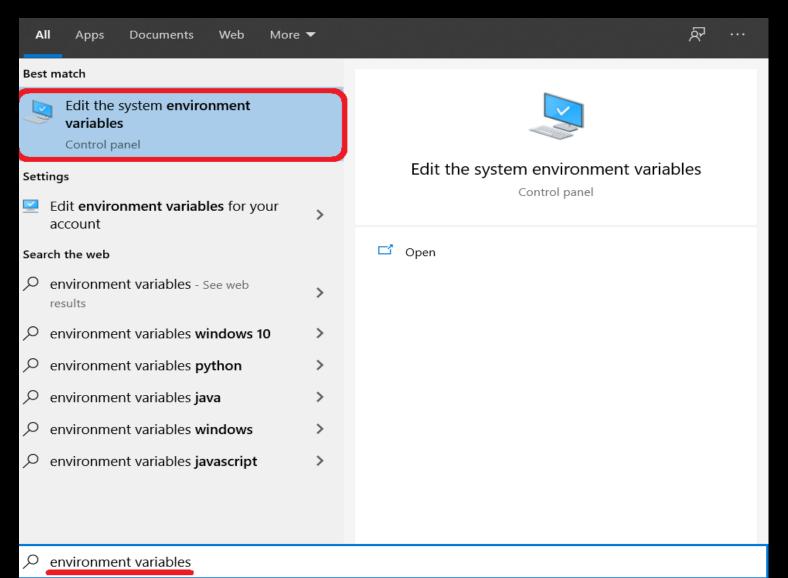


Go inside **Program Files** folder and look for **Java** folder.

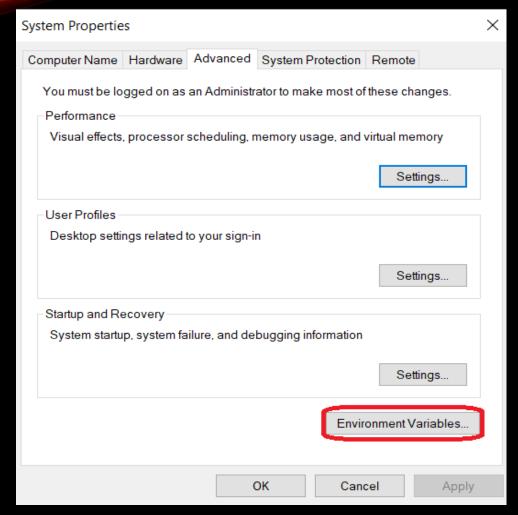


(5) System configuration for Java:

Press Window button from your Keyword and search for **environment** variables.

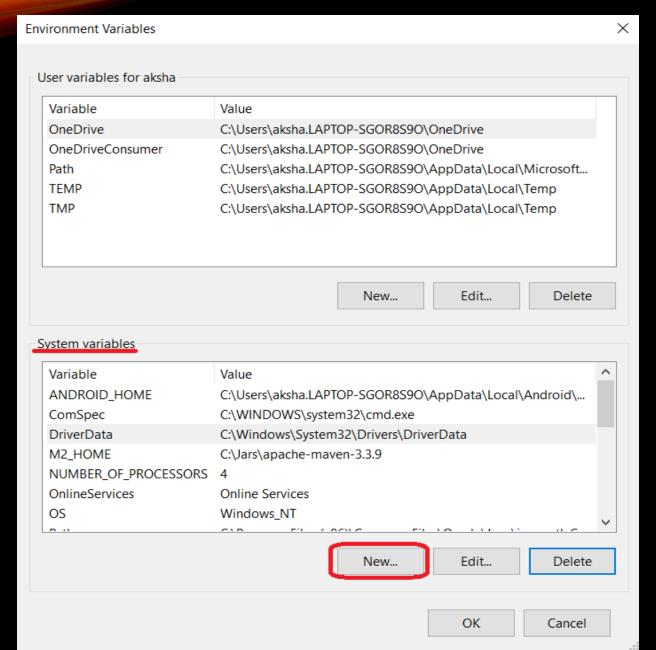


Open Edit the system environment variables.

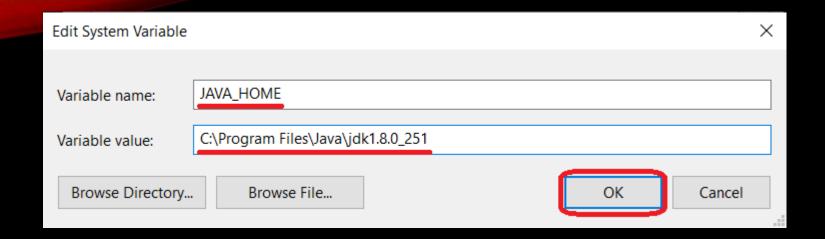


Click on **Environment Variables....**

Click on New button in System Variables.

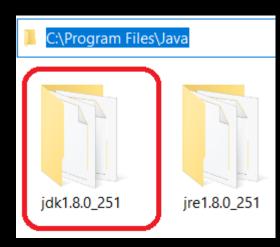


Type variable name as JAVA_HOME in Variable name field.

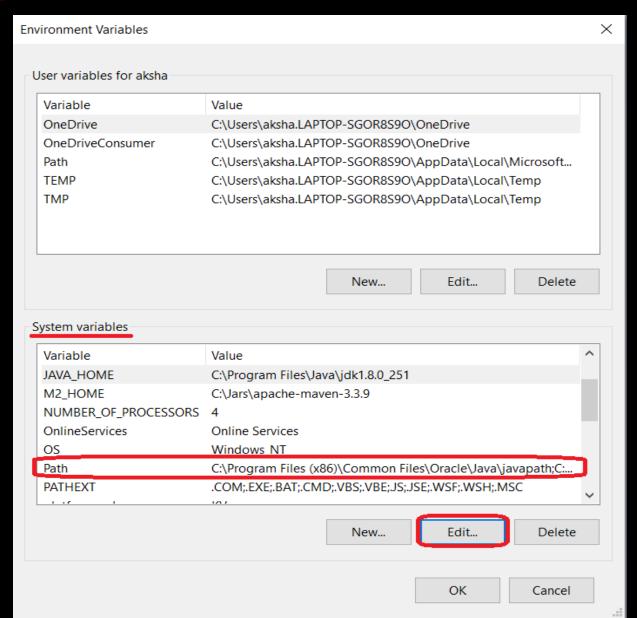


And, copy the path of jdk1.8.0_251 folder from Java folder to pass the value for Variable value field.

jdk1.8.0_251 path= C:\Program Files\Java\jdk1.8.0_251



select Path variable (scroll down to find) inside **System variables**, and click on **Edit...**.

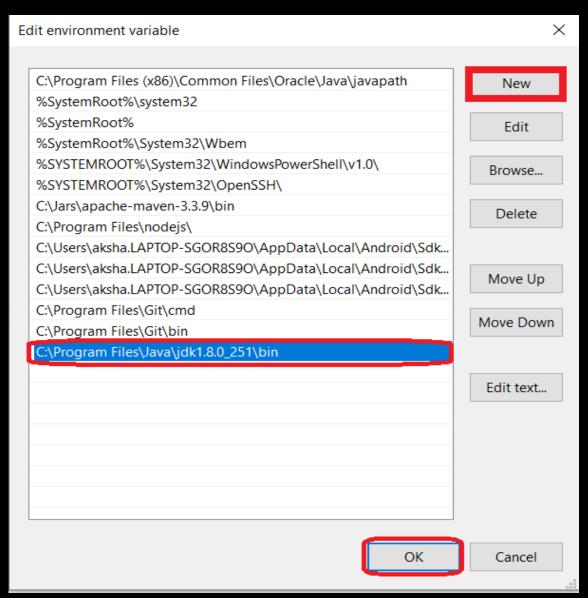


Copy the path of bin folder from jdk1.8.0_251.

bin path = C:\Program Files\Java\jdk1.8.0_251\bin

C:\	\Program Files\Java\jdk1.8.0_251			
Name	^	Date modified	Туре	Size
🧵 bii	n	28-04-2020 08:57 AM	File folder	
ind	clude	28-04-2020 08:57 AM	File folder	
📜 jre		28-04-2020 08:57 AM	File folder	
📜 lib		28-04-2020 08:58 AM	File folder	
cc	DPYRIGHT	12-03-2020 06:53 AM	File	4 KB
🦺 jav	vafx-src	28-04-2020 08:57 AM	Compressed (zipp	5,096 KB
LIC	CENSE	28-04-2020 08:57 AM	File	1 KB
O RE	EADME	28-04-2020 08:57 AM	Chrome HTML Do	1 KB
] rel	lease	28-04-2020 08:58 AM	File	1 KB
src	С	12-03-2020 06:53 AM	Compressed (zipp	20,574 KB
II T⊦	HIRDPARTYLICENSEREADME	28-04-2020 08:57 AM	Text Document	166 KB
■ TH	HIRDPARTYLICENSEREADME-JAVAFX	28-04-2020 08:57 AM	Text Document	115 KB

Click on New button and paste the value (path) which you have copied from bin folder inside jdk1.8.0_251 and click on OK for all three opened screen (window).



(6) Verify java configuration in your system

Open command prompt (cmd) and type java -version command to verify the java version which you have configured in your system.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.900]
(c) 2019 Microsoft Corporation. All rights reserved.

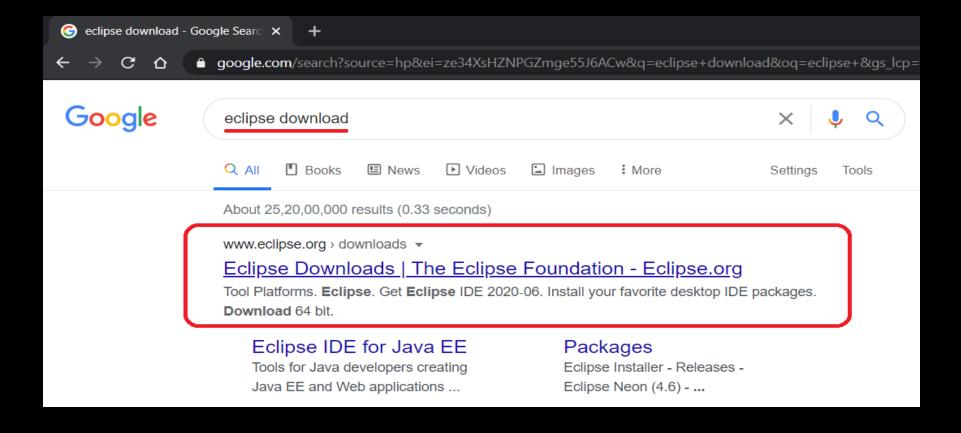
c:\Users\akshay>java -version
java version "1.8.0_251"
Java(TM) SE Runtime Environment (build 1.8.0_251-b08)
Java HotSpot(TM) 64-Bit Server VM (build 25.251-b08, mixed mode)
C:\Users\akshay>
```

It will display the java version which you have configured in your system.

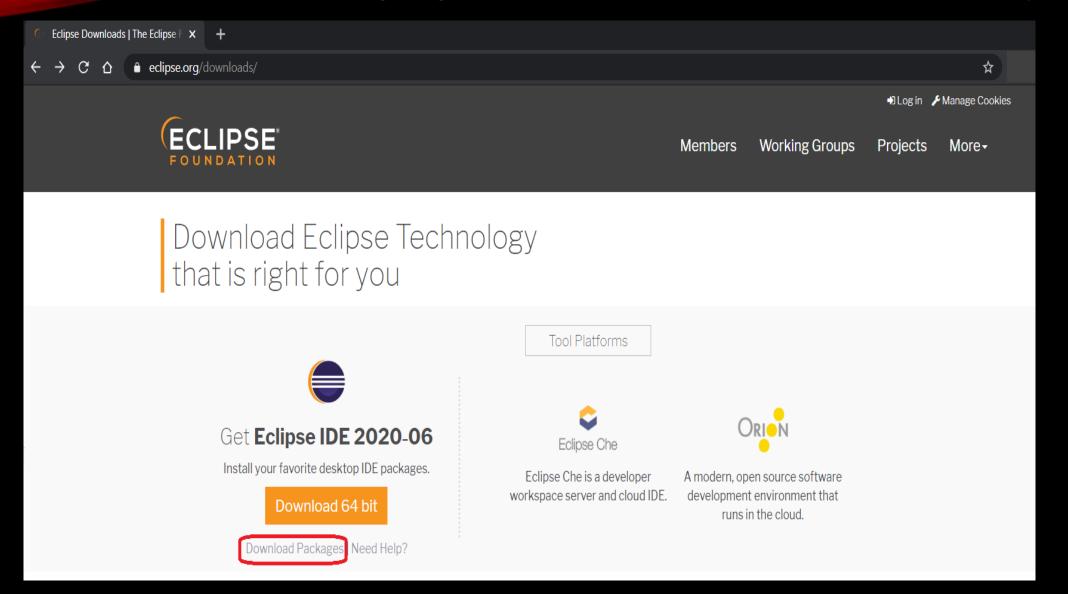
Click here... to watch the tutorial for Java configuration for Window OS.

ECLIPSE DOWNLOAD

Go to Google and search for Eclipse download.

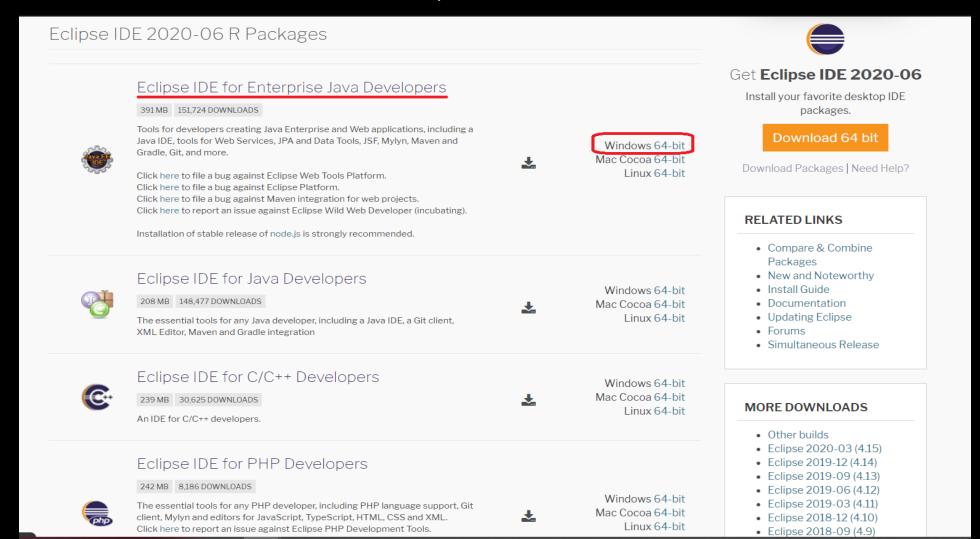


Go with the first link from the google search and click on Download Packages.



Based on your Operating System download the file from **Eclipse IDE for Enterprise**Java Developers.

Example: In my case, I am having Window 64 bit OS, so I will click on windows:64 bit for Eclipse to download.



Click on zip file to download the Eclipse.



Members Working Groups

Home / Downloads / Eclipse downloads - Select a mirror

All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified.



Download from: China - Dalian Neusoft University of Information (大连东软信息学院) (http)

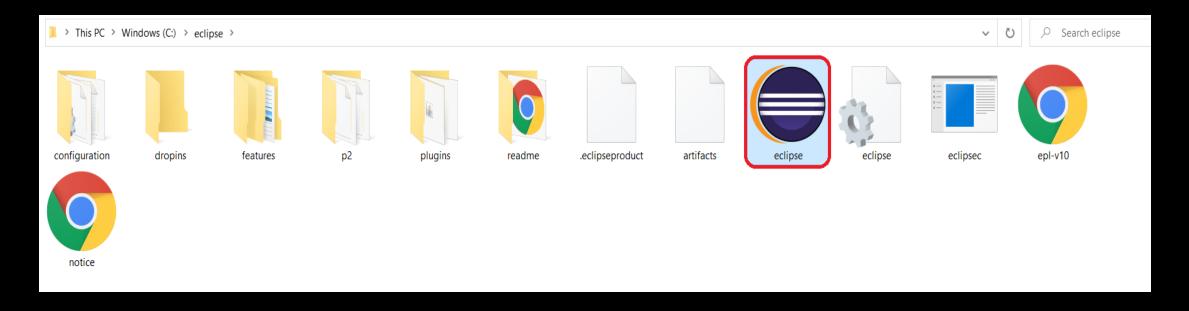
File: eclipse-jee-2020-06-R-win32-x86_64.zip SHA-512

>> Select Another Mirror

Once zip file for Eclipse get downloaded, you need to un-zip (Extract All..) it to launch (open) the Eclipse.

Click on Eclipse icon from Eclipse folder (un-zipped folder of Eclipse) to launch the Eclipse.

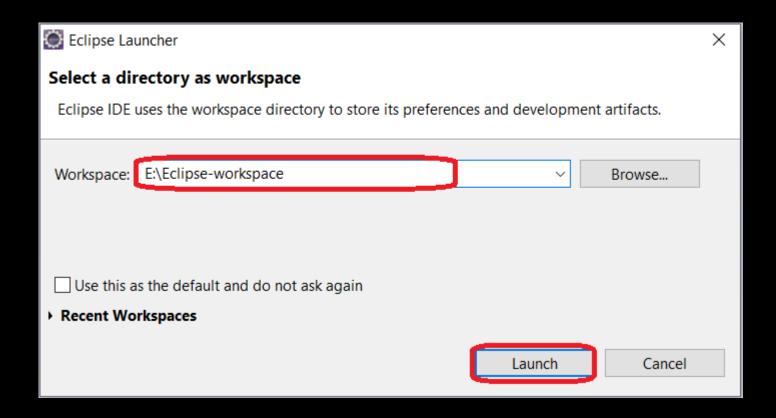
Note: Using zip file we don't have to install the Eclipse, we can simply launch the Eclipse from the Un-Zip (Extract All..) file.



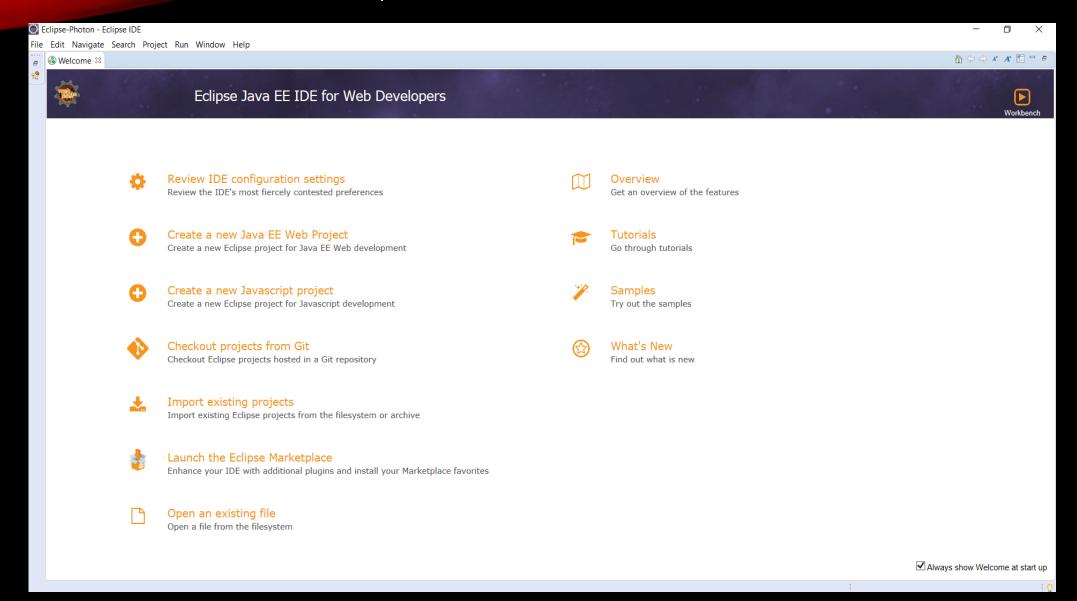
It will ask to set the workspace for your Eclipse.

Note: Workspace is space where all your projects is going to store for Eclipse.

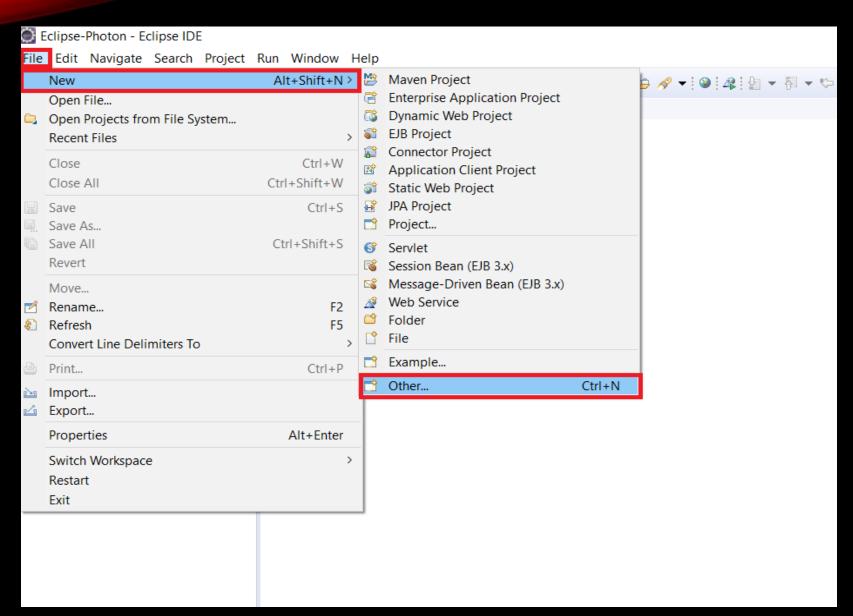
Provide any folder from your system to store (locate/keep) your Eclipse projects.



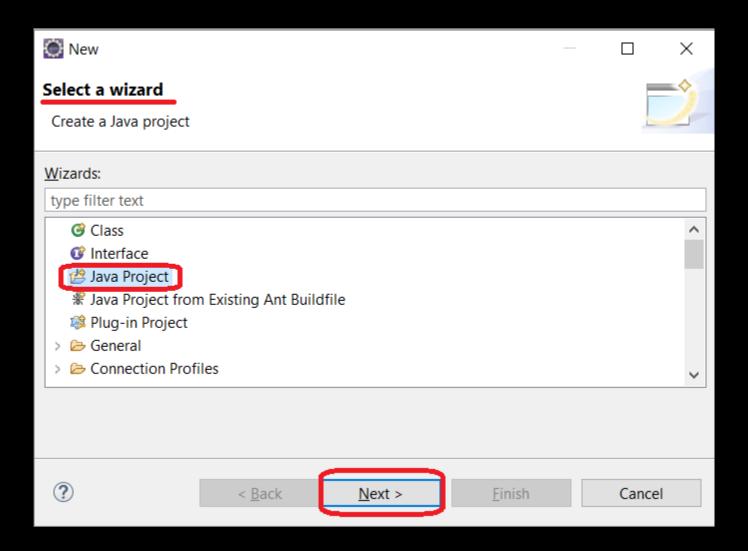
Click on Launch button to launch the Eclipse, once it get opened it will display welcome window from Eclipse.

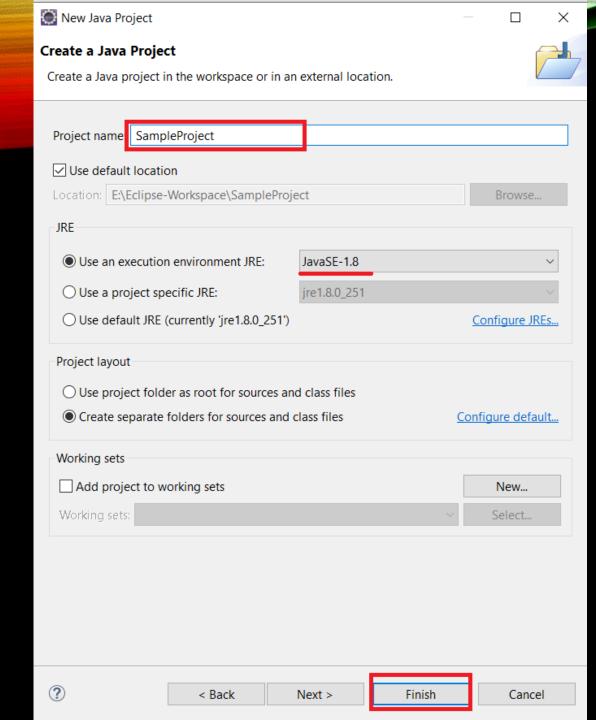


Close the welcome window (tab) and create java project. Click on File from Menu, go to New tab and click on Other....



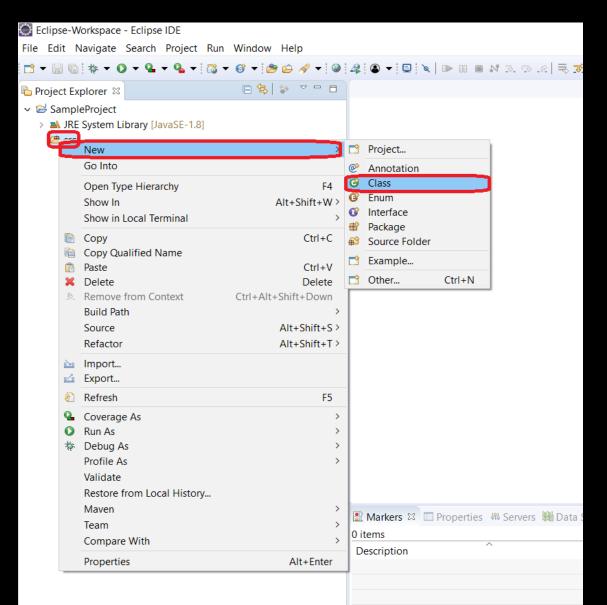
Select a Wizard window will get open, you need to select Java Project from the open wizard and click on Next.



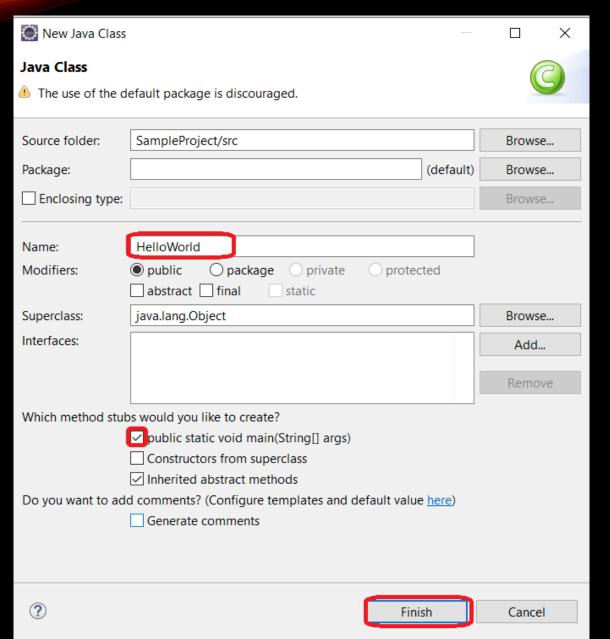


Enter your **Project Name**, and verify for **JRE** version, it should be same as your java version, click on **Finish** to create the java project.

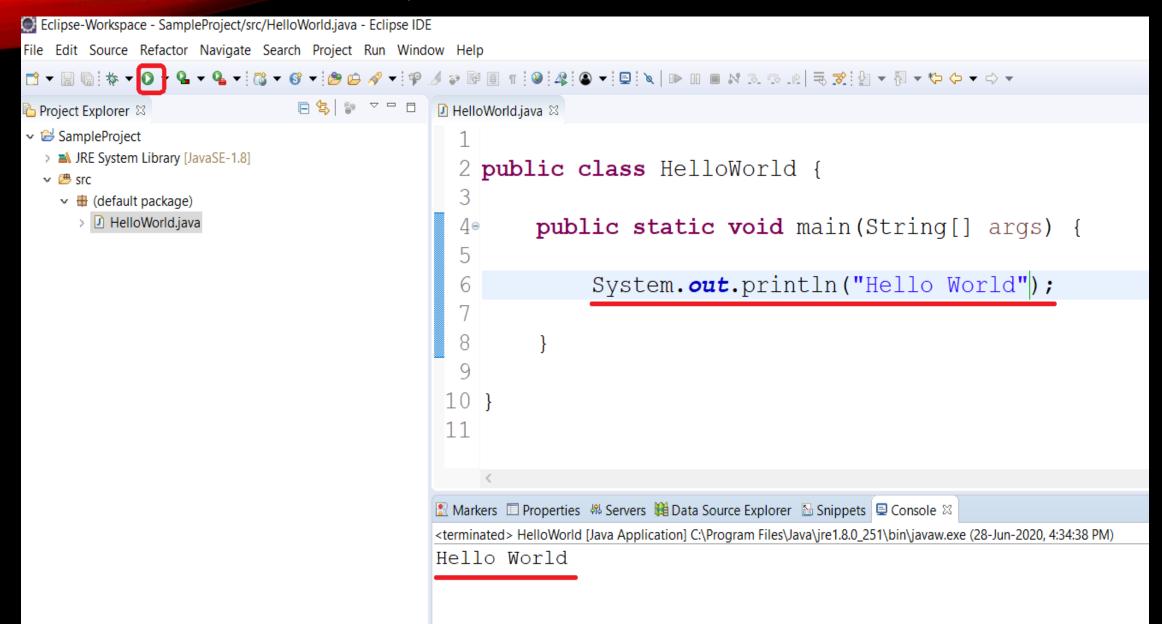
Expand your project and select your **src** folder, then right click on **src** and go to **New**, and select **class** to create a class file.



Enter your class Name and select check box for main and click on Finish.



Type printing statement as shown in line 6 to print Hello World as output. Now, click on play button to run your code.



<u>Click here...</u> to watch the tutorial for Eclipse for Window OS.

Thanks..