Downloading and installing java software

Where to download:

* In oracle java is a product.

Path:

* Oracle-->Product-->JAVA
* After opening we can read latest news about Java and we can download the software.

Java SE Development Kit 8u311

* 8u311: After releasing java versions they will be a bug. After fixing that bug again they release minor versions that is 8u311 (U means ".")
* Java versions are available from 1 t0 17.
* If you want to see all versions in java
* Oracle-->Product-->JAVA-->java Download-->Java archive
* They is changes done before java 11 and after java 11.
* After java 11 JRE is not providing separately. Only JDK provided but internally JRE is also there.

LTS and Non-LTS

LTS: Long term support (minimum 3 years they will give updates/ support)

Non-LTS: Non->Long term support (only it works for 6 months. After 6 months software is outdated).

* Every 6 months they will release a version called Non-LTS
* Every 3 years they will release a version called LTS.
* After java 11 every 6 months they have released new version.

Eclipse

* To write java program we have some IDE (Integrated development Environment)

They are top 4 IDV available

1. Eclipse

2. Intelli J IDEA

3. Netbeans

4. Visual Studio Code.

* We are writing a code in a file is called source file. After compiling code if no error found then java internally create a class file. That class file we used for execution.
* For compilation we need source file.
* Cmd: javac filename.java
* If no error found we can execute code for execution we need class file.
* Based on class name class file will be created
* Cmd: java filename.
* But in IDE no need to run above commands because in IDE we directly execute code JDK will compile internally and execute code.