



















Ex:1

## DevOps Tools Installation

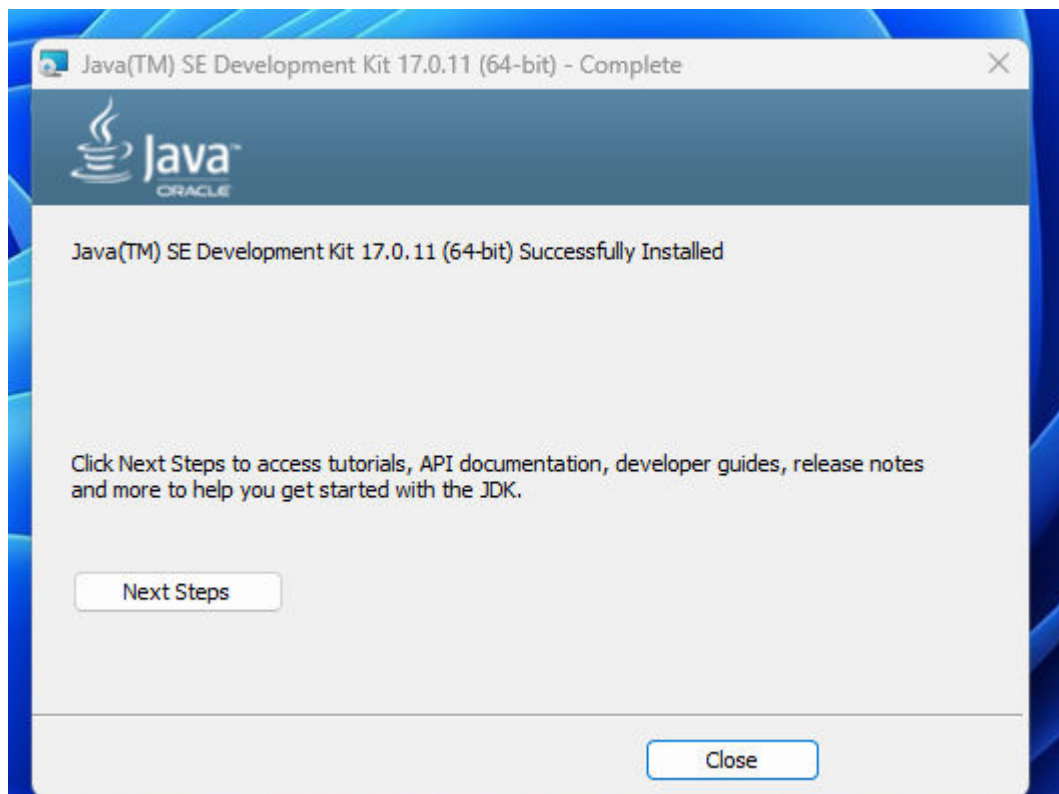
hema

### Downloads:

Yesterday

	<a href="#">apache-maven-3.9.8-bin.zip</a> From <a href="https://maven.apache.org">https://maven.apache.org</a>		
	<a href="#">eclipse-inst-jre-win64 (1).exe</a> From <a href="https://www.eclipse.org">https://www.eclipse.org</a>		
	<a href="#">eclipse-inst-jre-win64.exe</a> From <a href="https://www.eclipse.org">https://www.eclipse.org</a>		
	<a href="#">jdk-17.0.11 windows-x64 bin.exe</a> From <a href="https://www.oracle.com">https://www.oracle.com</a>		
	<a href="#">Git-2.46.0-64-bit (1).exe</a> From <a href="https://git-scm.com">https://git-scm.com</a>		
	<a href="#">Git-2.46.0-64-bit.exe</a> From <a href="https://gitforwindows.org">https://gitforwindows.org</a>		

### Exercise 1: Installation and Execution of JDK17



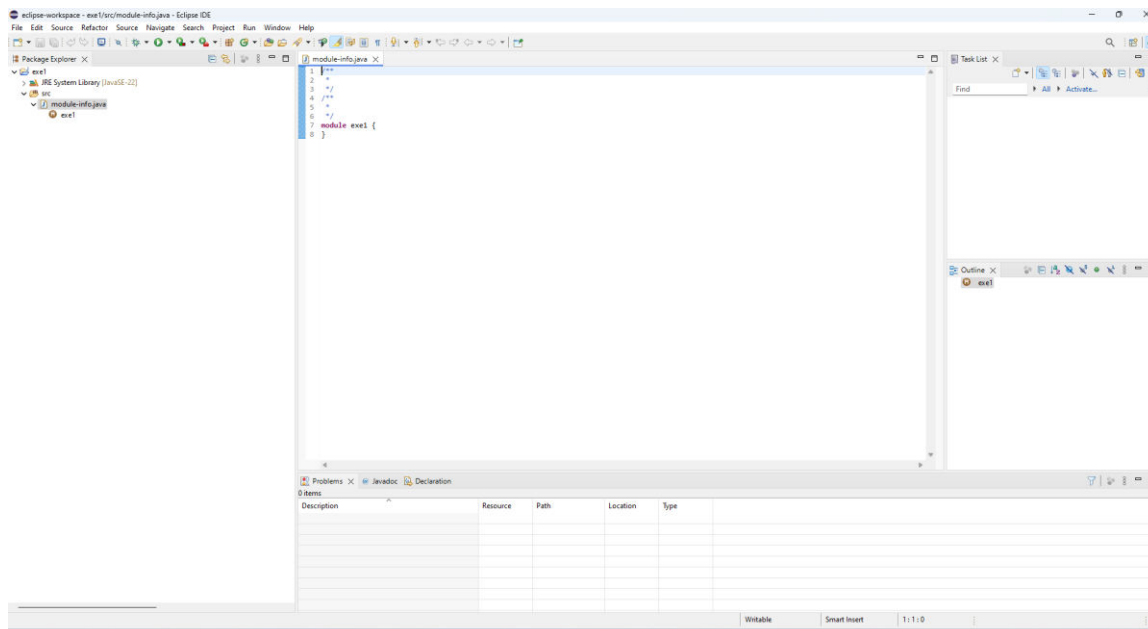
```
C:\Windows\system32\cmd.exe X + v

C:\Users\Admin>cd..

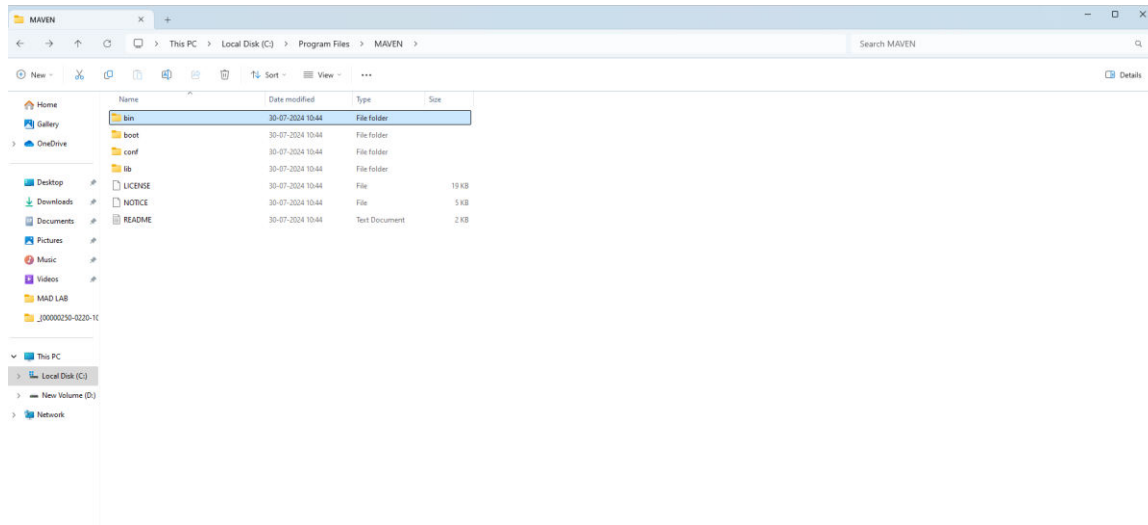
C:\Users>cd..

C:\>javac
Usage: javac <options> <source files>
where possible options include:
  @<filename>          Read options and filenames from file
  -Akey[=value]         Options to pass to annotation processors
  --add-modules <module>(<module>)*
                        Root modules to resolve in addition to the initial modules, or all modules
                        on the module path if <module> is ALL-MODULE-PATH.
  --boot-class-path <path>, -bootclasspath <path>
                        Override location of bootstrap class files
  --class-path <path>, -classpath <path>, -cp <path>
                        Specify where to find user class files and annotation processors
  -d <directory>        Specify where to place generated class files
  -deprecation
                        Output source locations where deprecated APIs are used
  --enable-preview
                        Enable preview language features. To be used in conjunction with either -source or --release.
  -encoding <encoding>  Specify character encoding used by source files
  -endorseddirs <dirs>  Override location of endorsed standards path
  -extdirs <dirs>       Override location of installed extensions
  -g                    Generate all debugging info
  -g:{lines,vars,source}
                        Generate only some debugging info
  -g:none               Generate no debugging info
  -h <directory>
                        Specify where to place generated native header files
  --help, -help, -?     Print this help message
  --help-extra, -X      Print help on extra options
  -implicit:{none,class}
                        Specify whether or not to generate class files for implicitly referenced files
  -J<flag>              Pass <flag> directly to the runtime system
  --limit-modules <module>(<module>)*
                        Limit the universe of observable modules
  --module <module>(<module>)*, -m <module>(<module>)*
                        Compile only the specified module(s), check timestamps
  --module-path <path>, -p <path>
                        Specify where to find application modules
  --module-source-path <module-source-path>
                        Specify where to find input source files for multiple modules
  --module-version <version>
                        Specify version of modules that are being compiled
  -nowarn               Generate no warnings
  -parameters
                        Generate metadata for reflection on method parameters
  -proc:{none,only,full}
                        Control whether annotation processing and/or compilation is done.
  -processor <class1>[,<class2>,<class3>...]
```

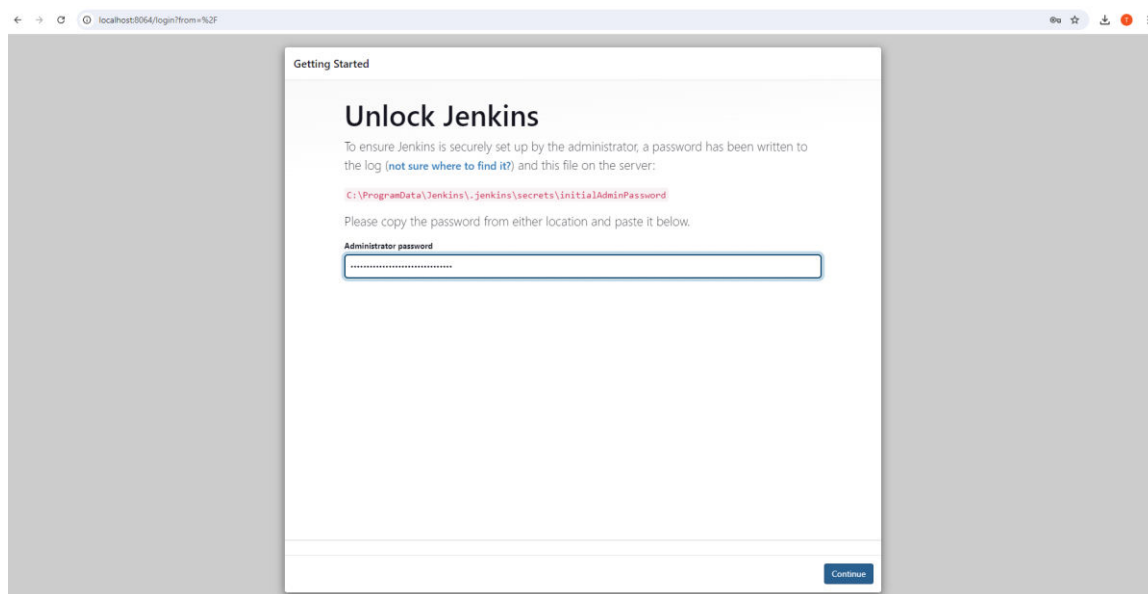
## Eclipse Installation and Execution:

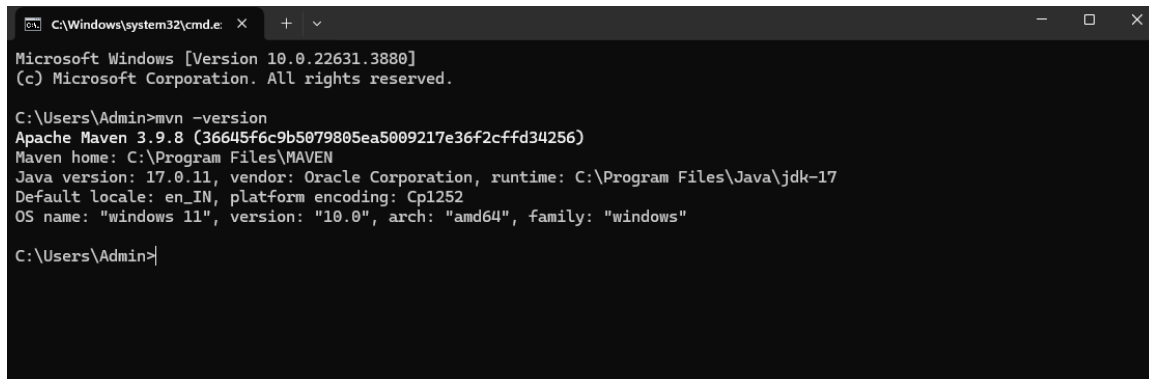
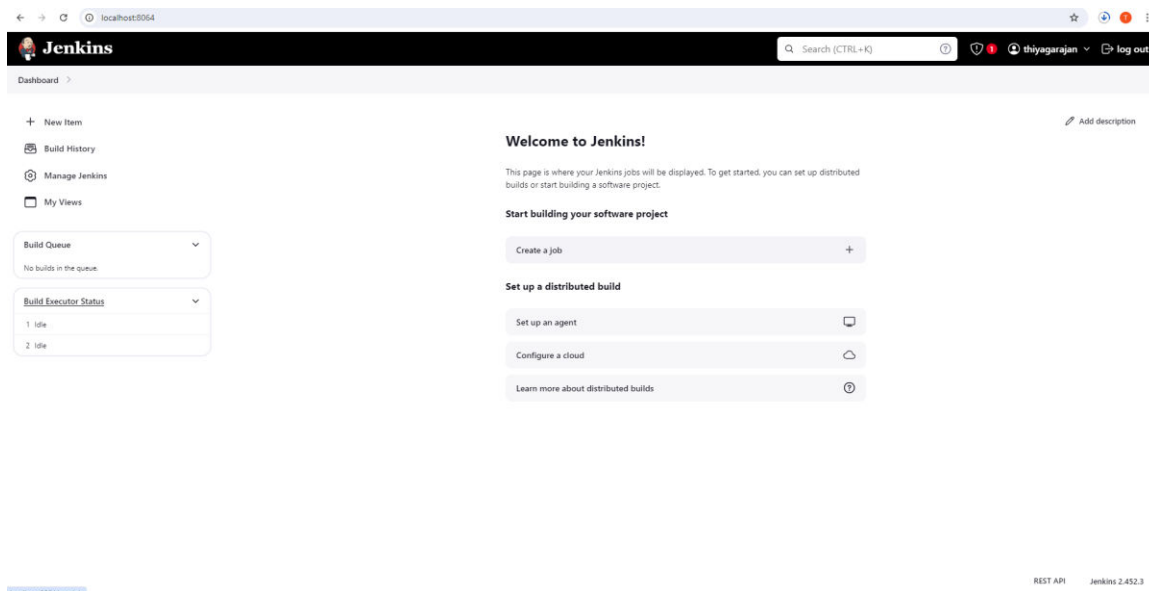
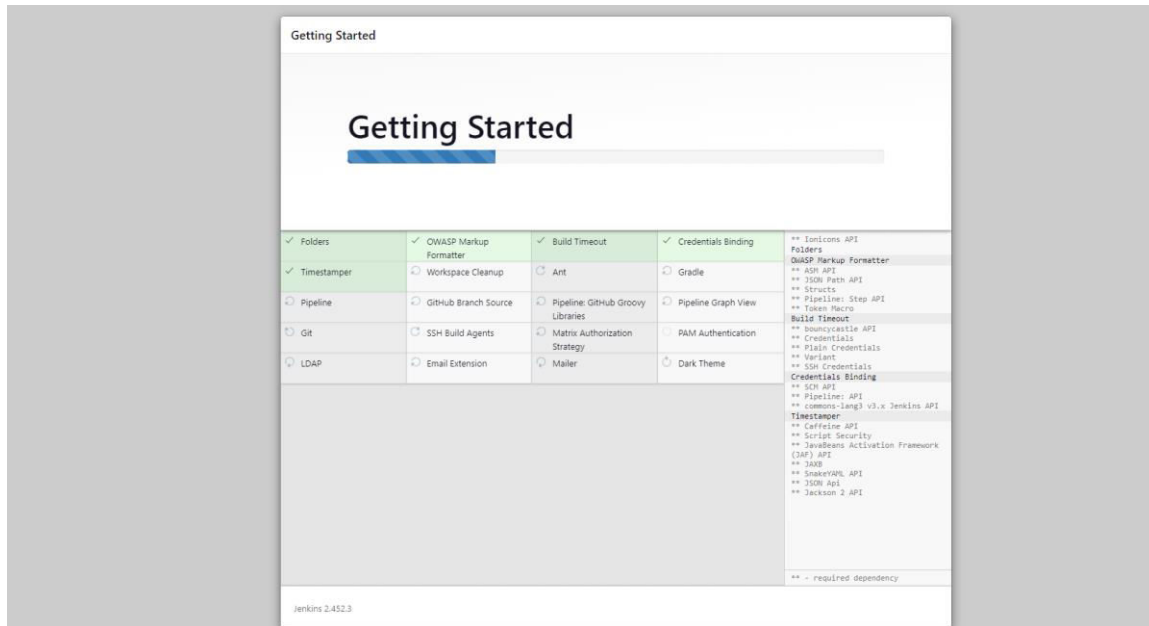


## Maven Installation and Execution:

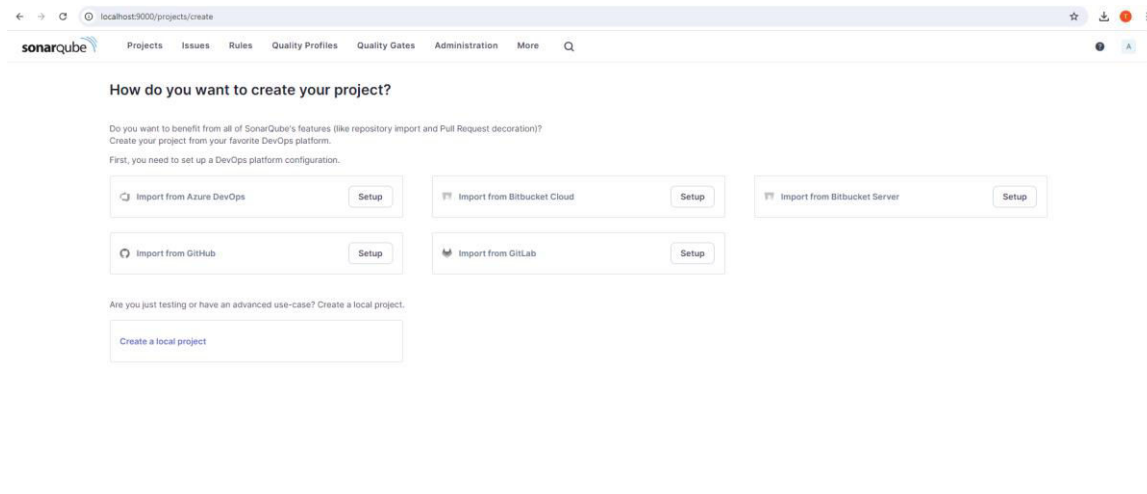


## Jenkins Installation:

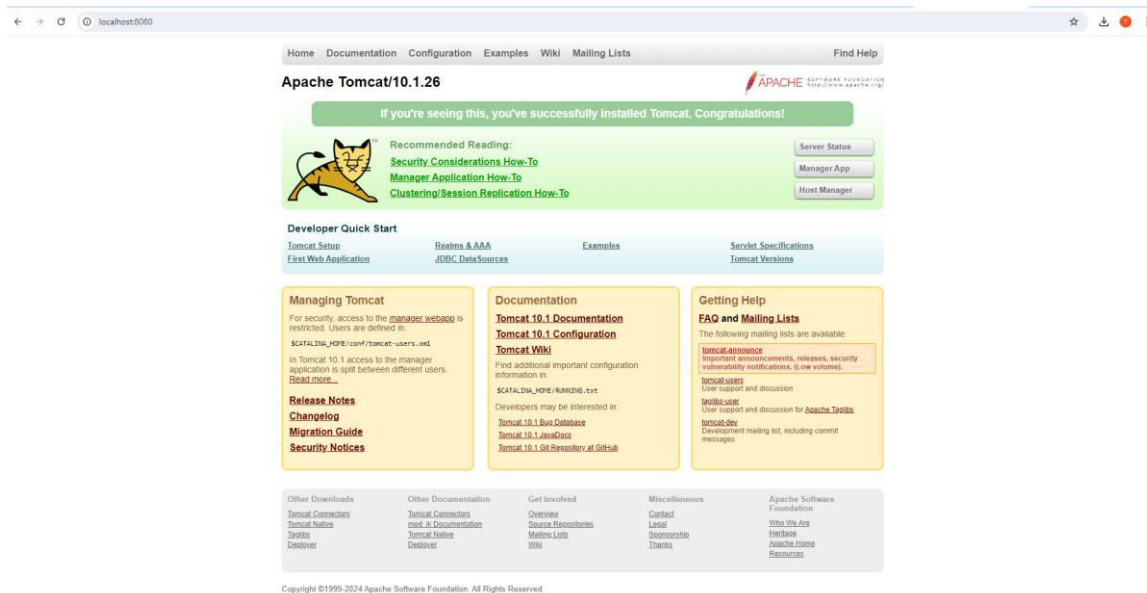




## SonarQube Installation



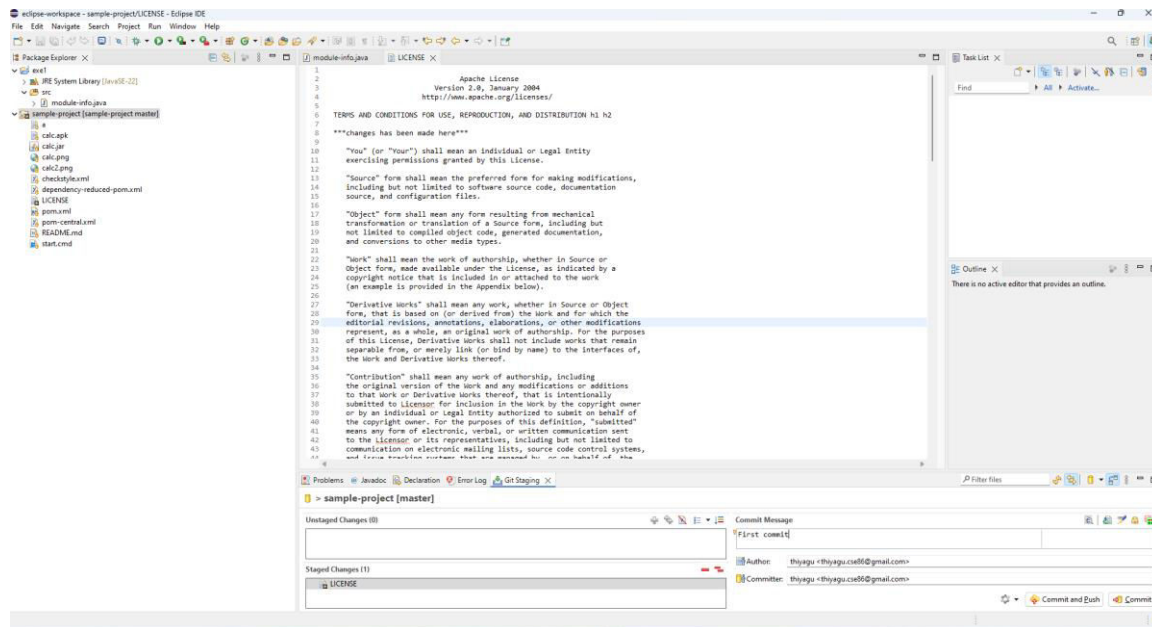
## Tomcat Installation



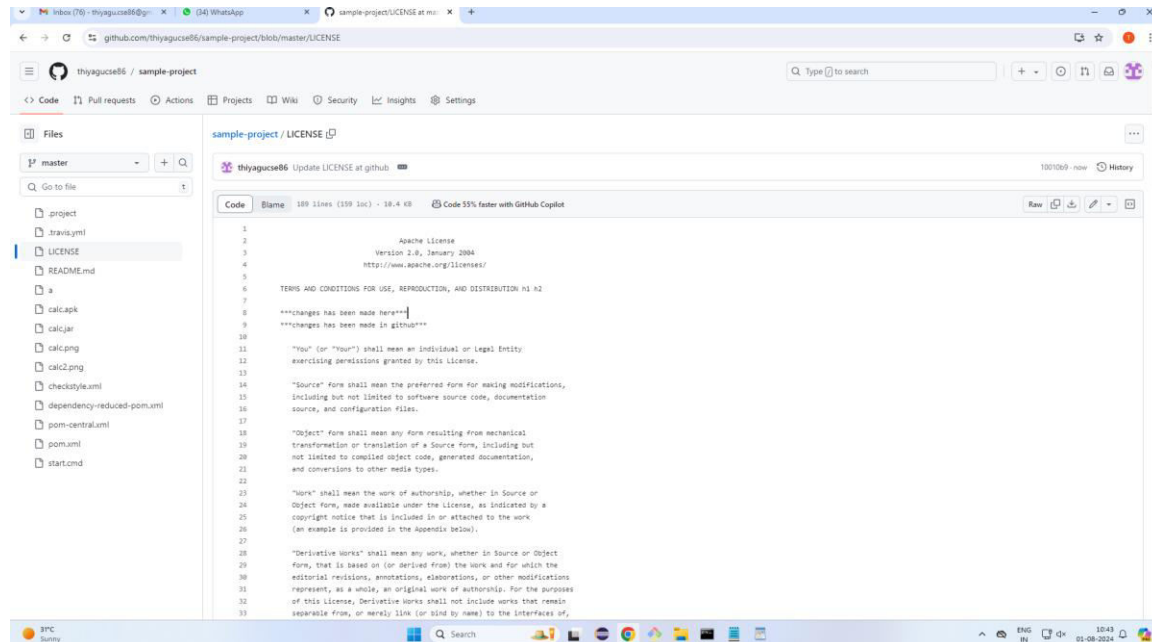
exe2

hema

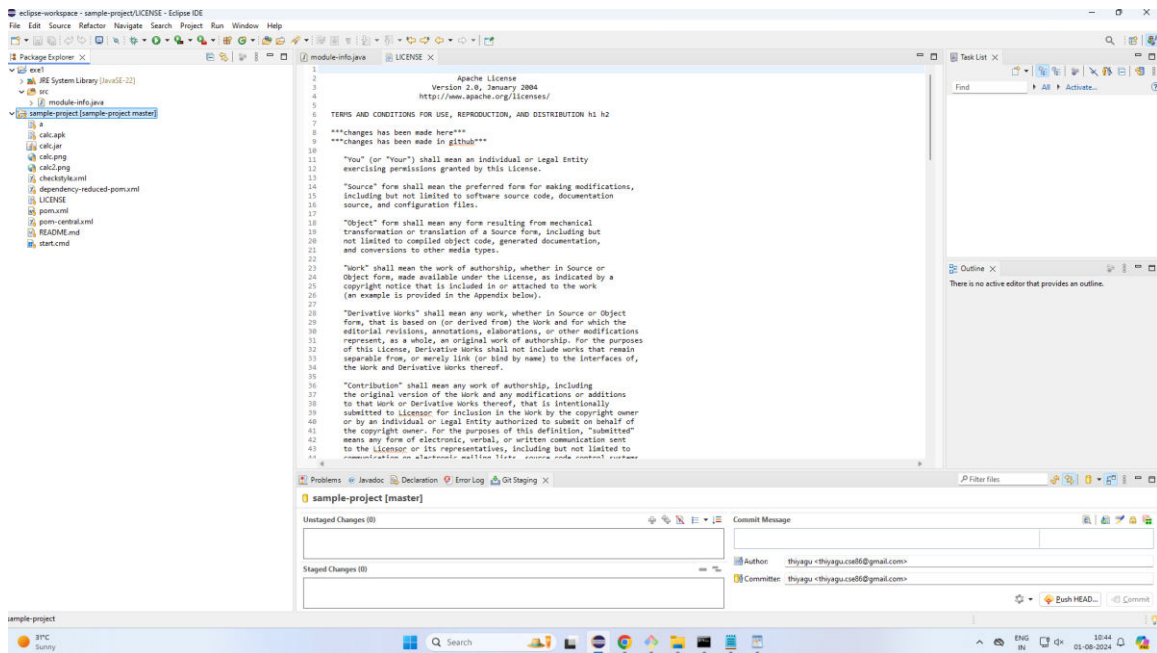
## Edit made in eclipse environment



## Pushed to Github

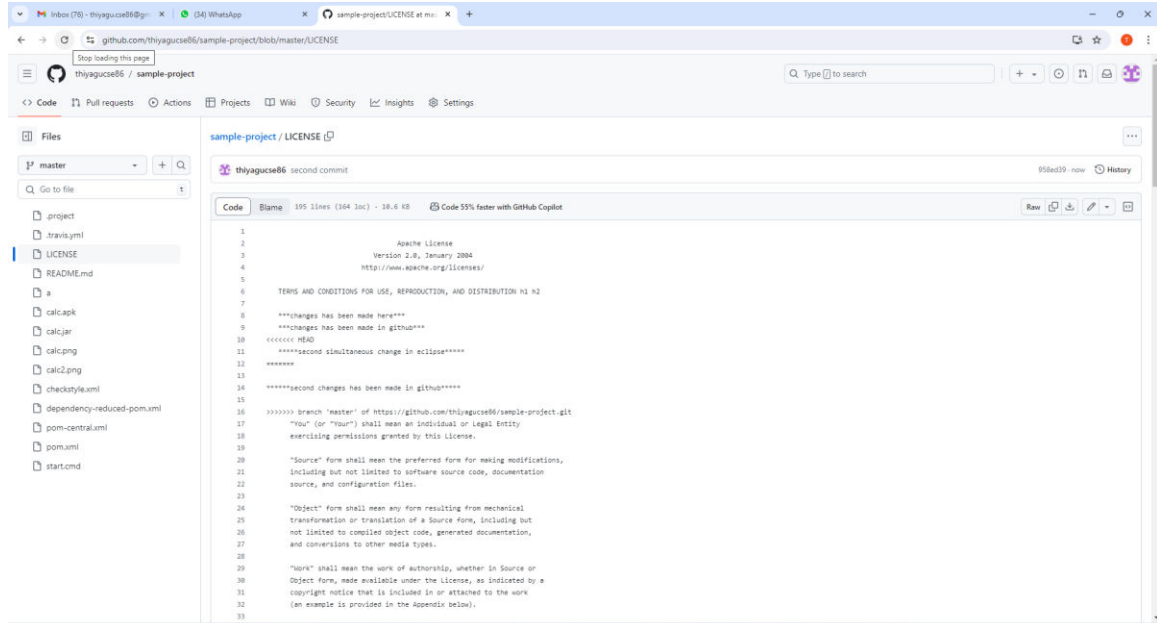


## Pulled in Eclipse



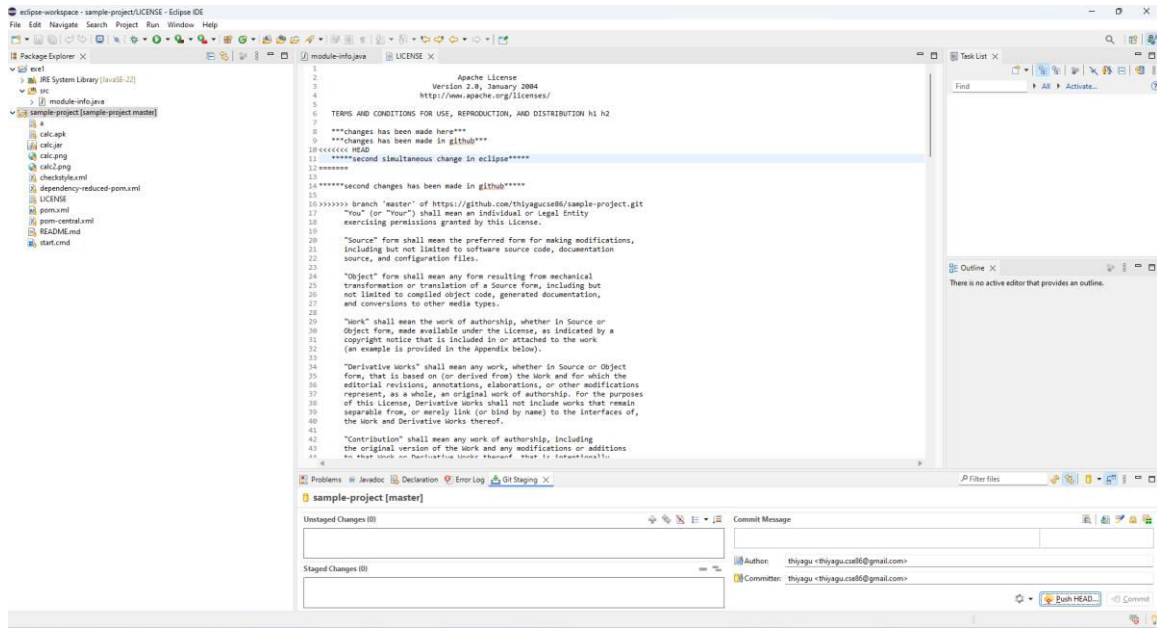
## Simultaneous editing in eclipse and github

### In github environment:



### In eclipse environment:



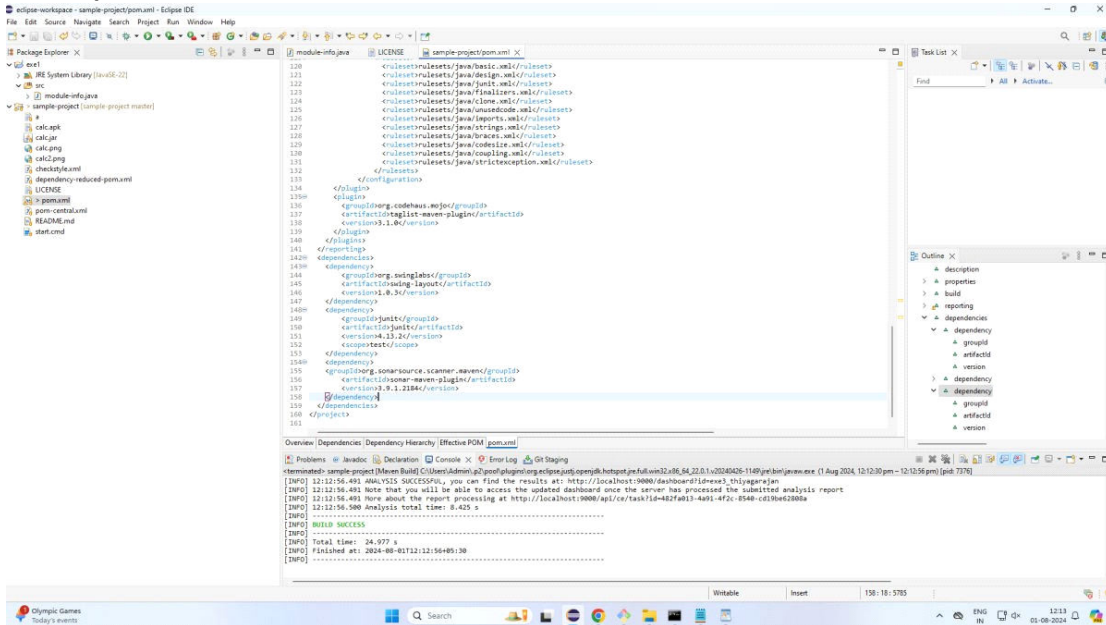


Exe 3

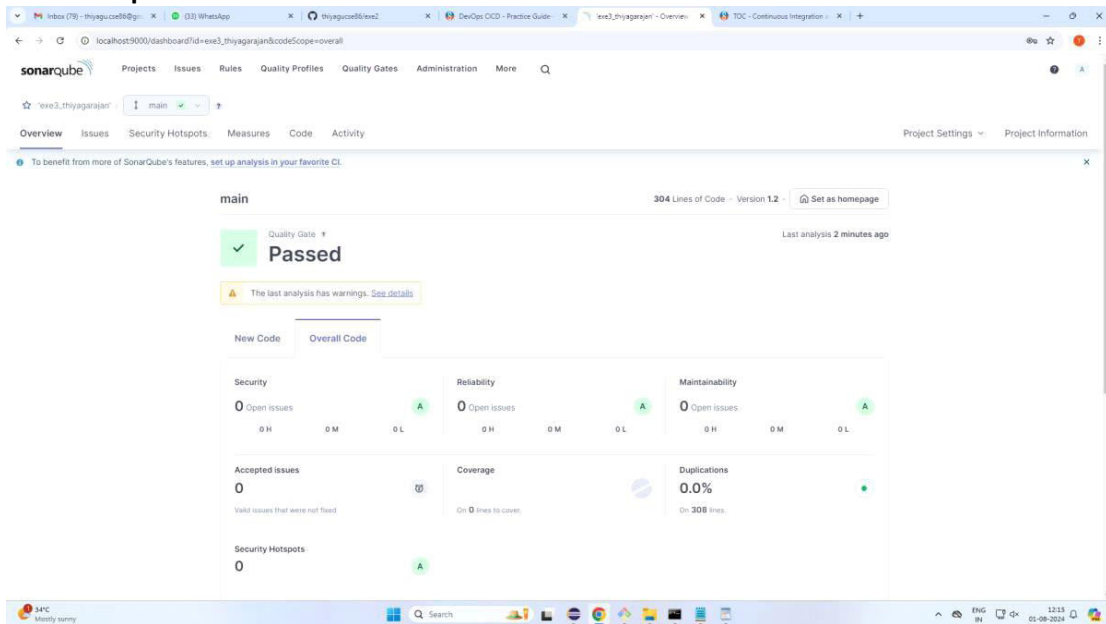
hemalatha

## SonarQube

### In Eclipse environment:



### In Sonarqube environment



```
Administrator: Command Prompt
[WARNING] - META-INF/MANIFEST.MF
[WARNING] plexus-cipher-1.4.jar, plexus-sec-dispatcher-1.4.jar, sonar-maven-pl
ugin-3.9.1.2184.jar define 1 overlapping resource:
[WARNING] - META-INF/plexus/components.xml
[WARNING] maven-shade-plugin has detected that some files are
[WARNING] present in two or more JARs. When this happens, only one
[WARNING] single version of the file is copied to the uber jar.
[WARNING] Usually this is not harmful and you can skip these warnings,
[WARNING] otherwise try to manually exclude artifacts based on
[WARNING] mvn dependency:tree -Ddetail=true and the above output.
[WARNING] See https://maven.apache.org/plugins/maven-shade-plugin/
[INFO] Replacing original artifact with shaded artifact.
[INFO] Replacing C:\Users\Admin\git\sample-project\target\calculator.jar with
C:\Users\Admin\git\sample-project\target\calculator-1.2-shaded.jar
[INFO]
[INFO] --- install:3.1.2:install (default-install) @ calculator ---
[INFO] Installing C:\Users\Admin\git\sample-project\dependency-reduced-pom.xml
to C:\Users\Admin\.m2\repository\com\github\calculator\1.2\calculator-1.2.pom
[INFO] Installing C:\Users\Admin\git\sample-project\target\calculator.jar to C
:\Users\Admin\.m2\repository\com\github\calculator\1.2\calculator-1.2.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.189 s
[INFO] Finished at: 2024-08-01T12:48:35+05:30
[INFO] -----
```

