

Build and Release Management Lab Experiment 1

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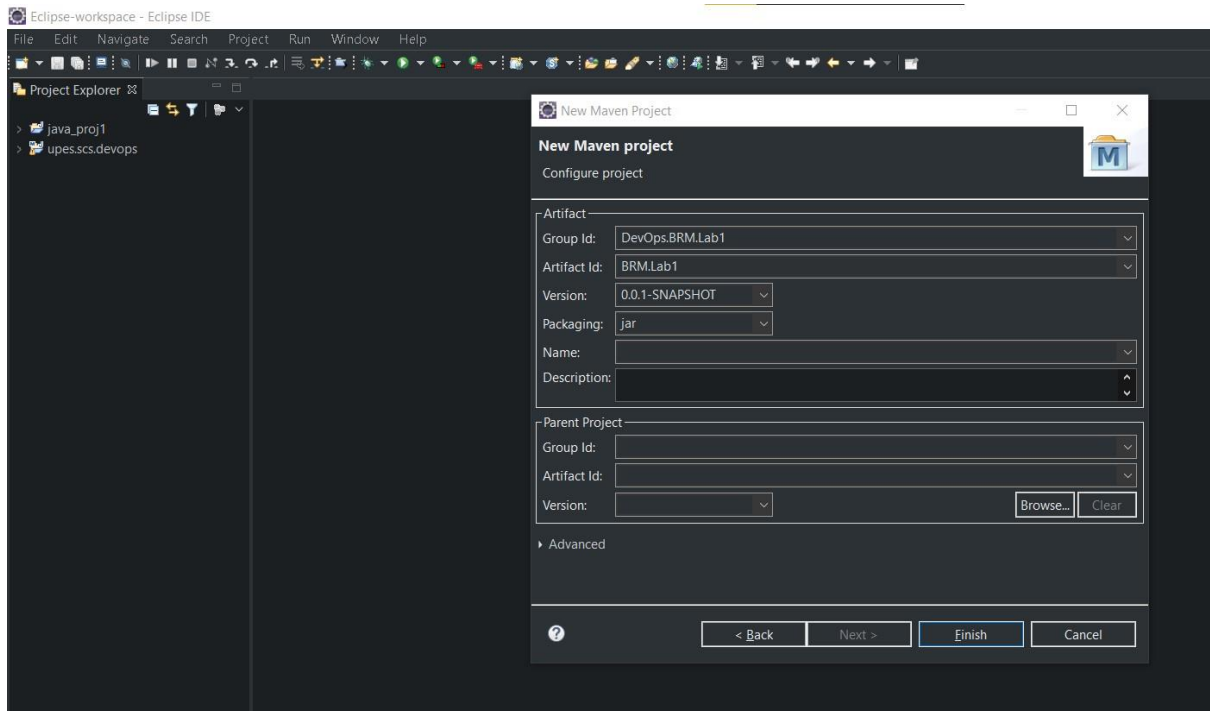
Roll No.: R171219007

SAP ID.: 500075964

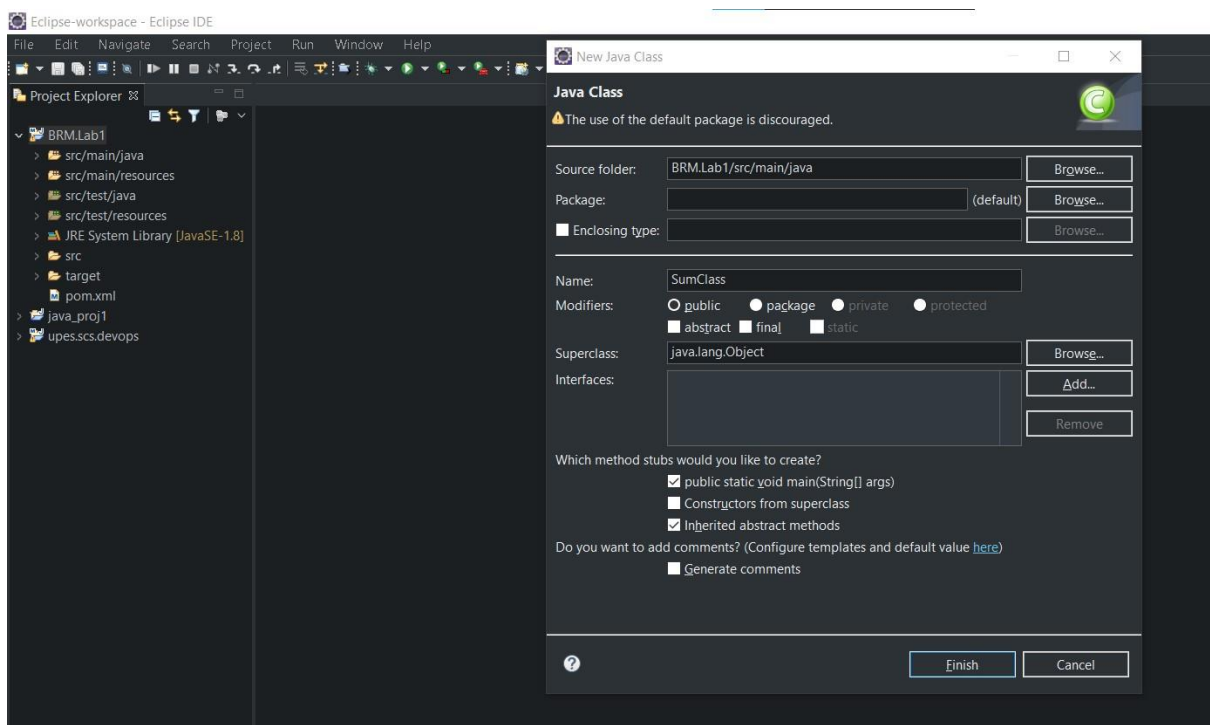
Branch: B.Tech-CSE-DevOps

Aim: Create a maven project with a java class and run the project with goals: clean, compile, install and create a .jar file of the final build.

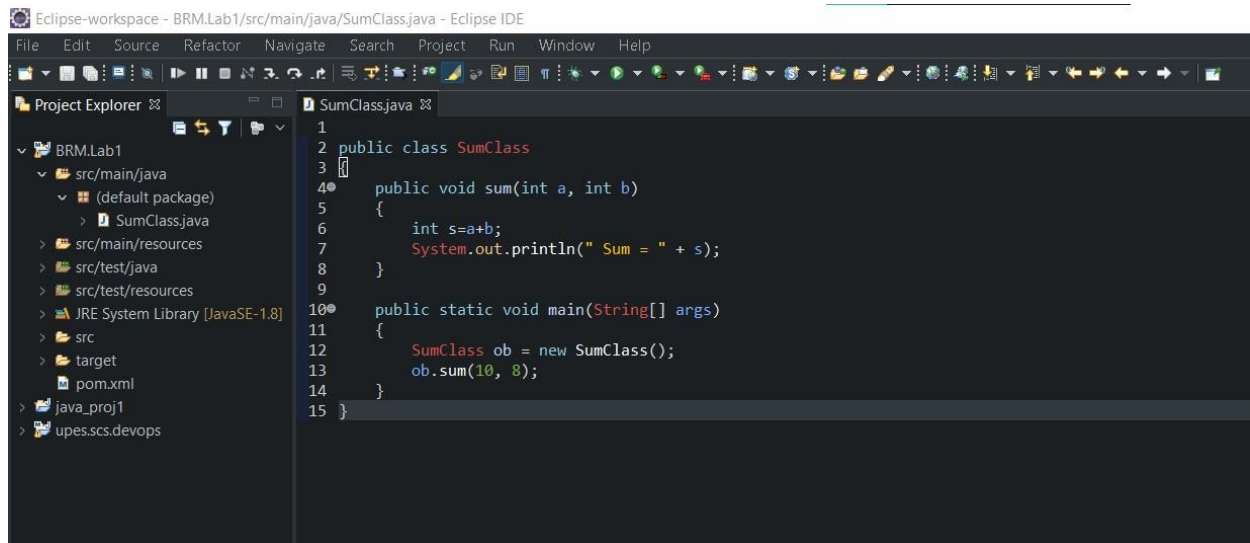
Step 1: Create a Maven project.



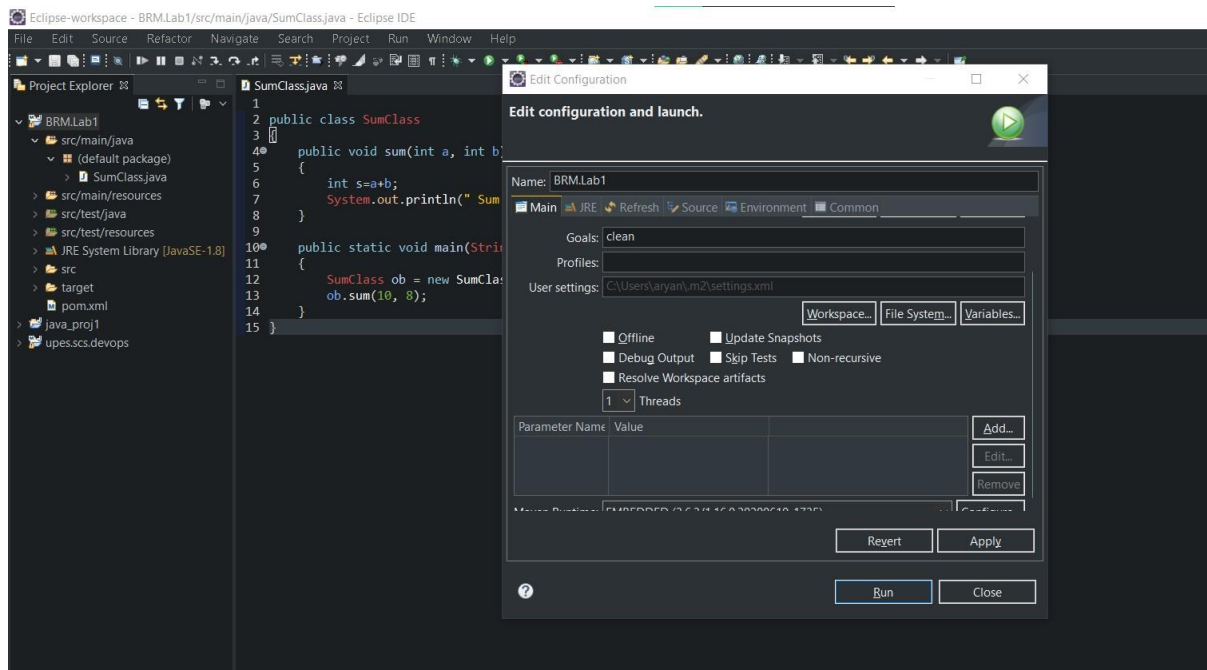
Step 2: Create a Java Class.



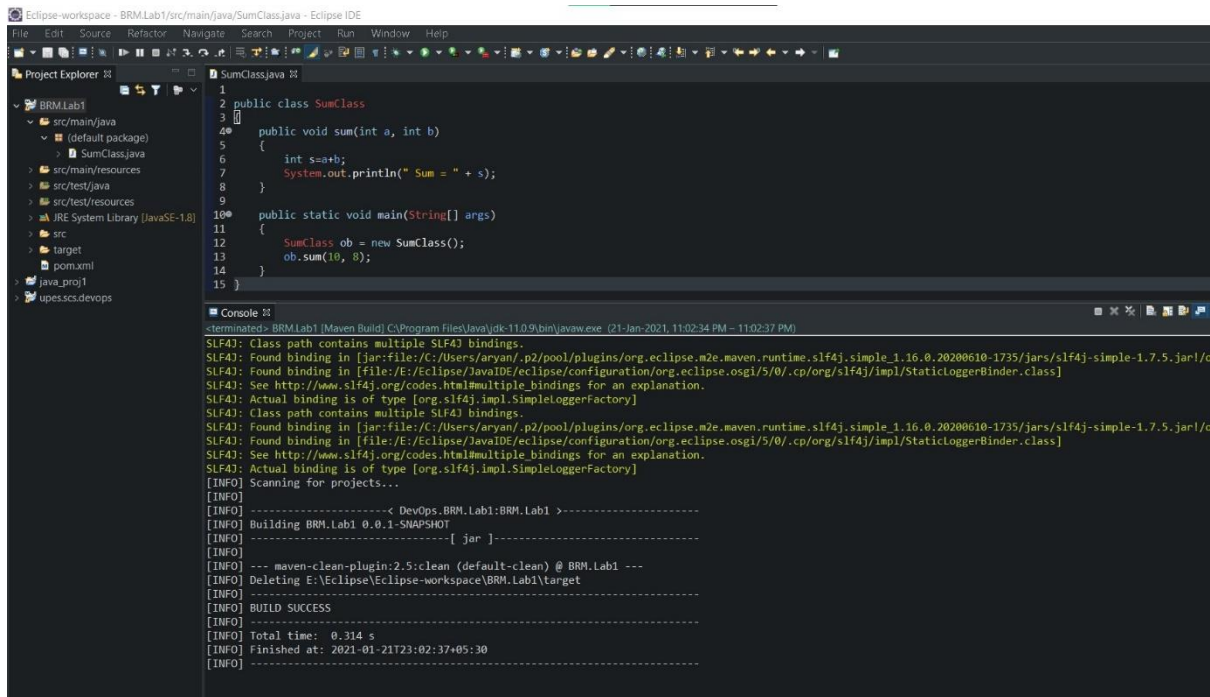
Step 3: Write some java code in newly created java class file.



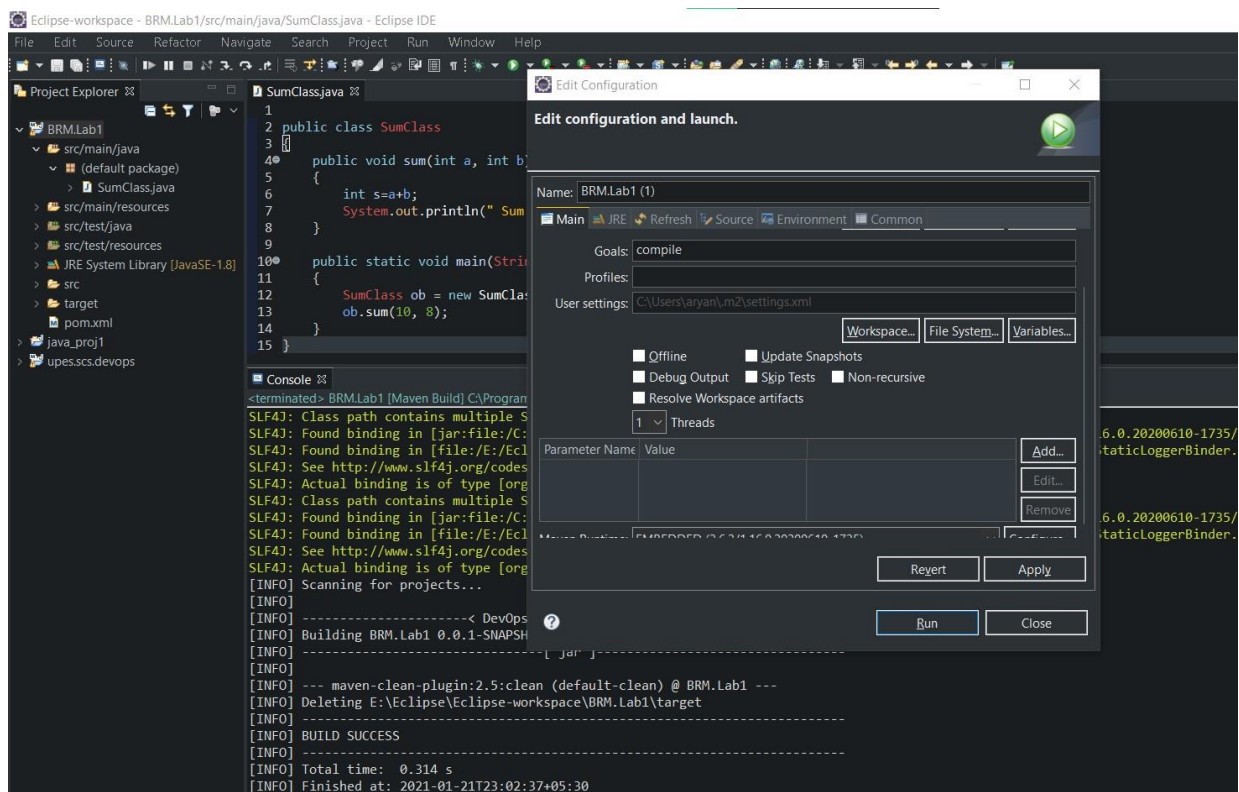
Step 4: Now right click on the project folder, go to “Run As”, then click on “Maven build...”, a dialog box will open. In that, set the “goal” as “clean” (shown below).

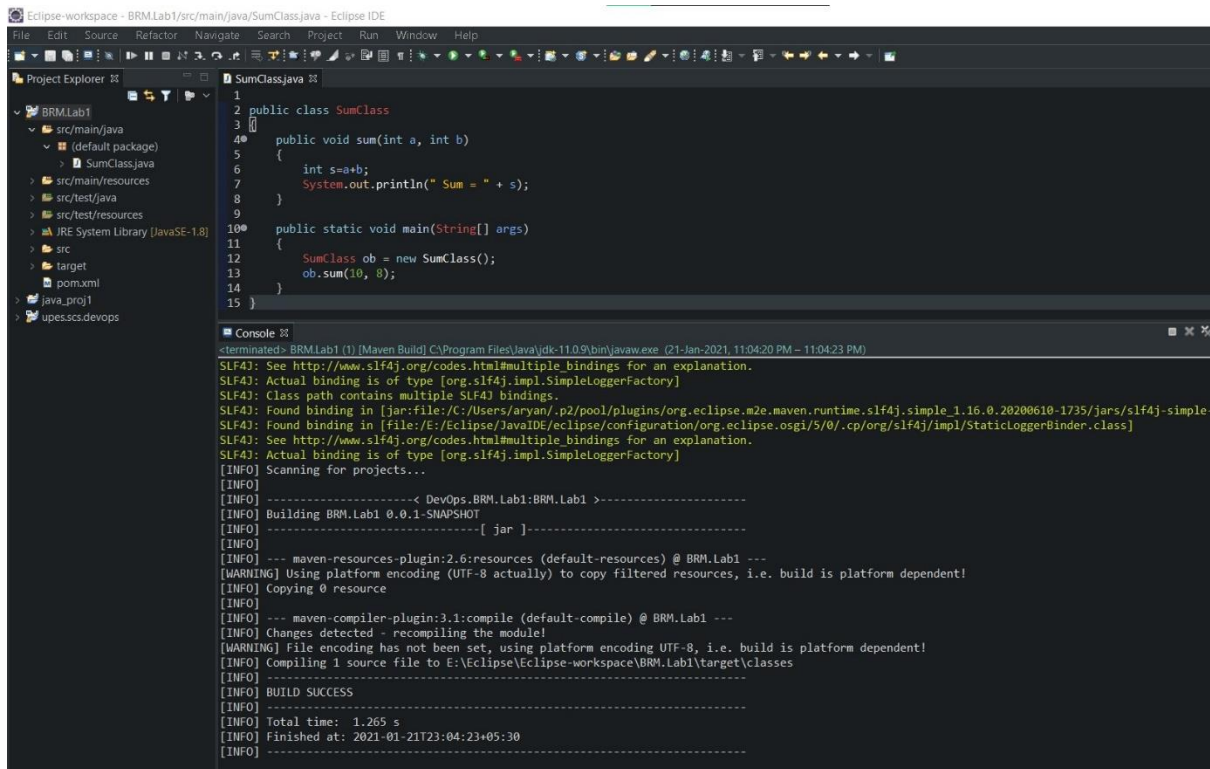


A console will pop up as given below.

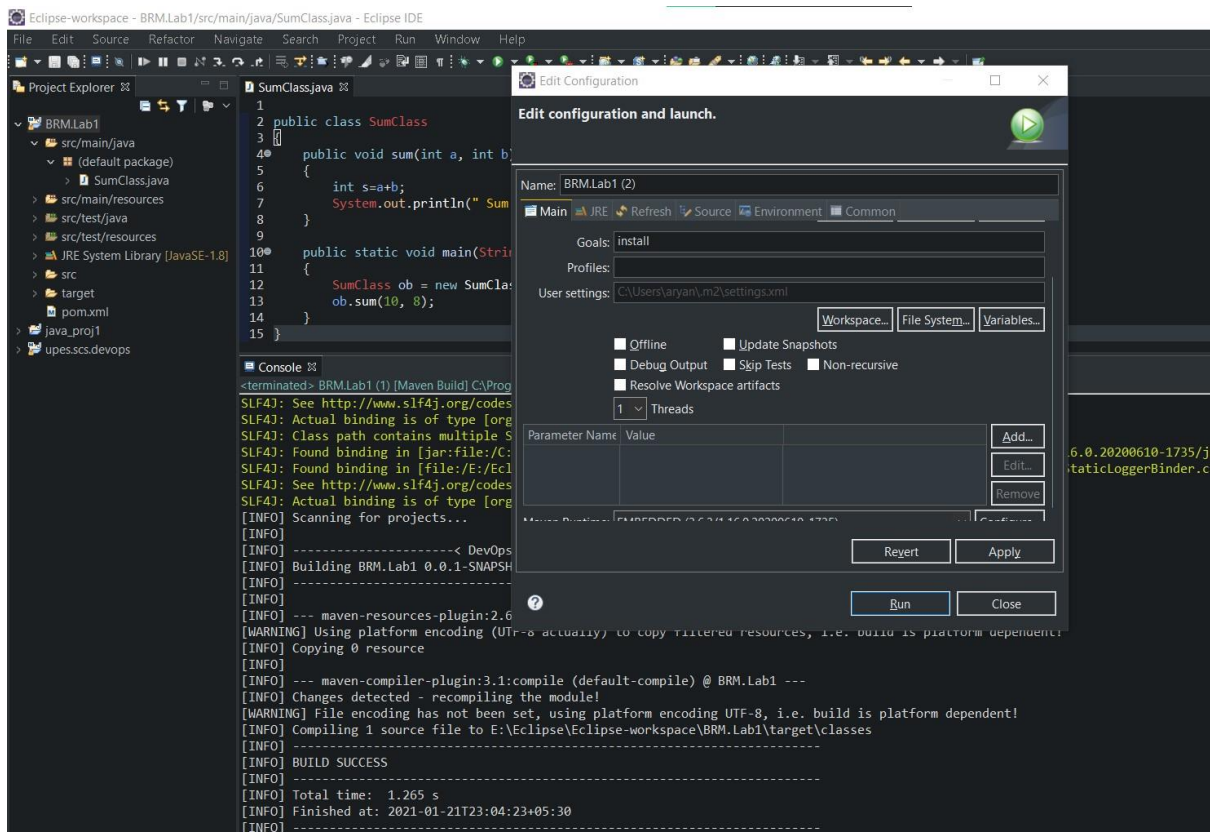


Step 5: Repeat Step 4 again but now set the “goal” as “compile”.





Step 6: Repeat Step 4 again but now set the “goal” as “install”. Now with the goal install, a .jar file will be created in the target folder of the project.




```
<terminated> BRMLab1 (2) [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\java.exe (21-Jan-2021, 11:05:40 PM - 11:05:43 PM)
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/C:/Users/aryan/.p2/pool/plugins/org.eclipse.m2e.maven.runtime.slf4j.simple.1.16.0.20200610-1735/jars/slf4j-simple-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [file:/E:/Eclipse/JavaIDE/eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory]
[INFO] Scanning for projects...
[INFO] -----< DevOps.BRM.Lab1:BRM.Lab1 >-----
[INFO] Building BRM.Lab1 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ BRM.Lab1 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ BRM.Lab1 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ BRM.Lab1 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ BRM.Lab1 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ BRM.Lab1 ---
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ BRM.Lab1 ---
[INFO] Building jar: E:\Eclipse\Eclipse-workspace\BRM.Lab1\target\BRM.Lab1-0.0.1-SNAPSHOT.jar
[INFO] --- maven-install-plugin:2.4:install (default-install) @ BRM.Lab1 ---
[INFO] Installing E:\Eclipse\Eclipse-workspace\BRM.Lab1\target\BRM.Lab1-0.0.1-SNAPSHOT.jar to C:\Users\aryan\.m2\repository\DevOps\BRM\Lab1\BRM.Lab1\0.0.1-SNAPSHOT\BRM.Lab1-0.0.1-SNAPSHOT.jar
[INFO] Installing E:\Eclipse\Eclipse-workspace\BRM.Lab1\pom.xml to C:\Users\aryan\.m2\repository\DevOps\BRM\Lab1\BRM.Lab1\0.0.1-SNAPSHOT\BRM.Lab1-0.0.1-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.312 s
[INFO] Finished at: 2021-01-21T23:05:43+05:30
[INFO] -----
```

Name	Date modified	Type	Size
classes	21-01-2021 23:04	File folder	
generated-sources	21-01-2021 23:04	File folder	
maven-archiver	21-01-2021 23:05	File folder	
maven-status	21-01-2021 23:04	File folder	
test-classes	21-01-2021 23:05	File folder	
BRM.Lab1-0.0.1-SNAPSHOT.jar	21-01-2021 23:05	Executable Jar File	3 KB

Result: Hence we successfully created a maven project with a java class and run it with goals: clean, compile, install and created a .jar file of the final build.