

# **Build and Release Management LAB File**

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LAB-1

DATE : 21<sup>st</sup> JAN 2021

## LAB 1:

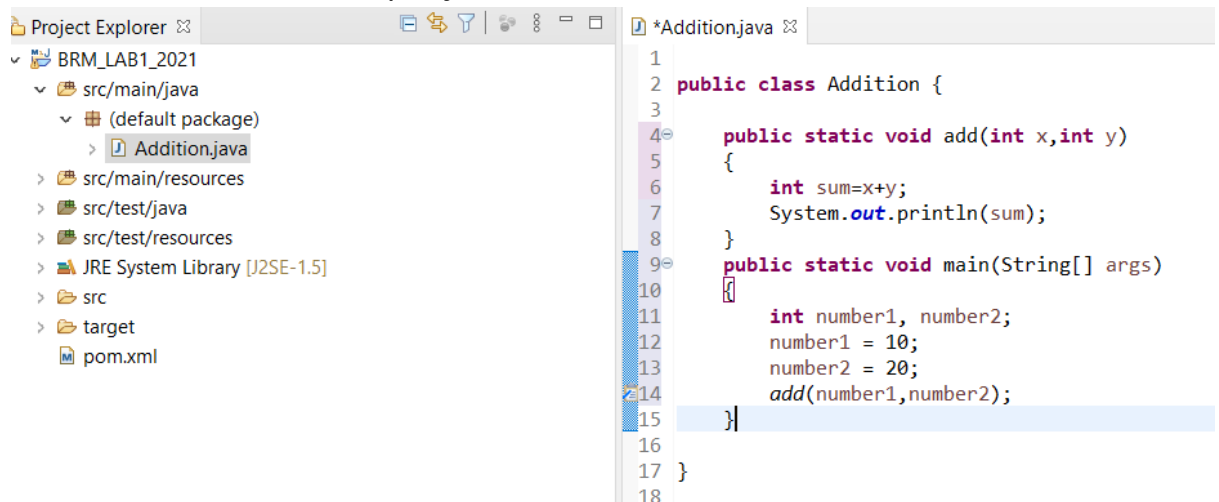
**Aim:** Basics maven project, goals like: clean, build, and install. Using a jar file in another java project with making reference with that jar package.

### Cmd line command:

```
mvn archetype:generate -D groupId=com.skaas.sample -D artifactId=my-app -D
archetypeArtifactId=maven-archetype-quickstart -D interactiveMode=false
```

### Procedure:

#### 1. Create a basic maven project and added a class to it



## 2. Now ran a maven goal: clean

```

Addition.java
1
2 public class Addition {
3
4     public static void add(int x,int y)
5     {
6         int sum=x+y;
7         System.out.println(sum);
8     }
9     public static void main(String[] args)
10    {
11        int number1, number2;
12        number1 = 10;
13        number2 = 20;
14        add(number1,number2);
15    }
16 }

```

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```

<terminated> BRM_LAB1_2021 (1) [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 10:00:55 AM – 10:00:59
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory]
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/C:/Users/Soma%20Sekhar/.p2/pool/plugins/org.eclipse.m2e.maven.ru
SLF4J: Found binding in [file:/D:/eclipse/eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j
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]
[INFO] -----< com.upes.dp.brm:BRM_LAB1_2021 >-----
[INFO] Building Lab_1 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ BRM_LAB1_2021 ---
[INFO] Deleting D:\eclipse\workspace\BRM_LAB1_2021\target
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 2.094 s
[INFO] Finished at: 2021-01-21T10:00:59+05:30
[INFO] -----

```

## 3. Now to generate the jar package, run the maven goal: install

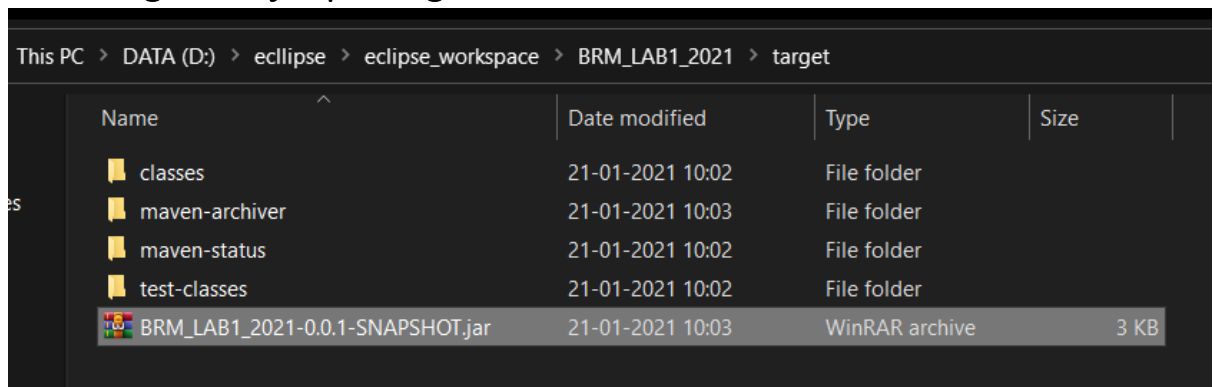
Markers Properties Servers Data Source Explorer Snippets Console

```

<terminated> BRM_LAB1_2021 (3) [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 10:03:01 AM – 10:03:19 AM)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.1/plexus-3.1.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.1/plexus-3.1.pom (19 kB at 52 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.pom (1.1 kB at 3
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-components/1.1.7/plexus-components-1.1.7.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-components/1.1.7/plexus-components-1.1.7.pom
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/1.0.8/plexus-1.0.8.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/1.0.8/plexus-1.0.8.pom (7.2 kB at 23 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-8/plexus-contain
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-8/plexus-contain
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (230 kB at
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.jar (12 kB at 20
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (230 kB at
[INFO] Installing D:\eclipse\workspace\BRM_LAB1_2021\target\BRM_LAB1_2021-0.0.1-SNAPSHOT.jar to C:\Users\Soma Sekhar\.m2\repo
[INFO] Installing D:\eclipse\workspace\BRM_LAB1_2021\pom.xml to C:\Users\Soma Sekhar\.m2\repository\com\upes\dp\brm\BRM_LAB1_
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 15.495 s
[INFO] Finished at: 2021-01-21T10:03:19+05:30
[INFO] -----

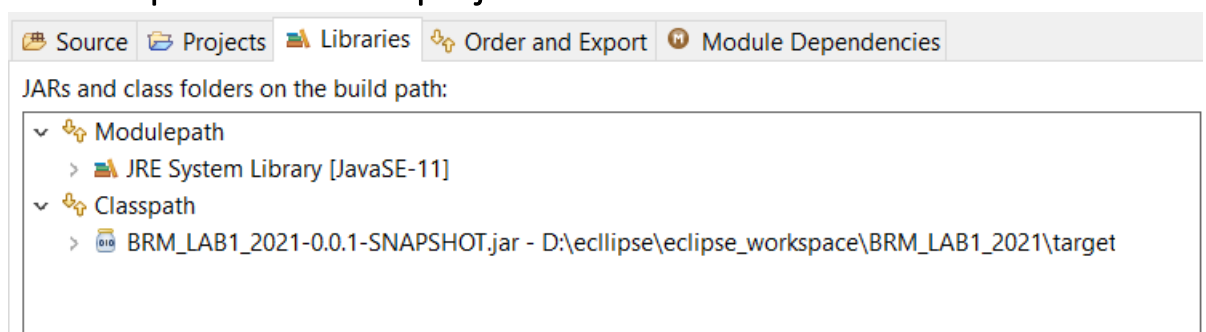
```

#### 4. Checking if the jar package has been built or not.

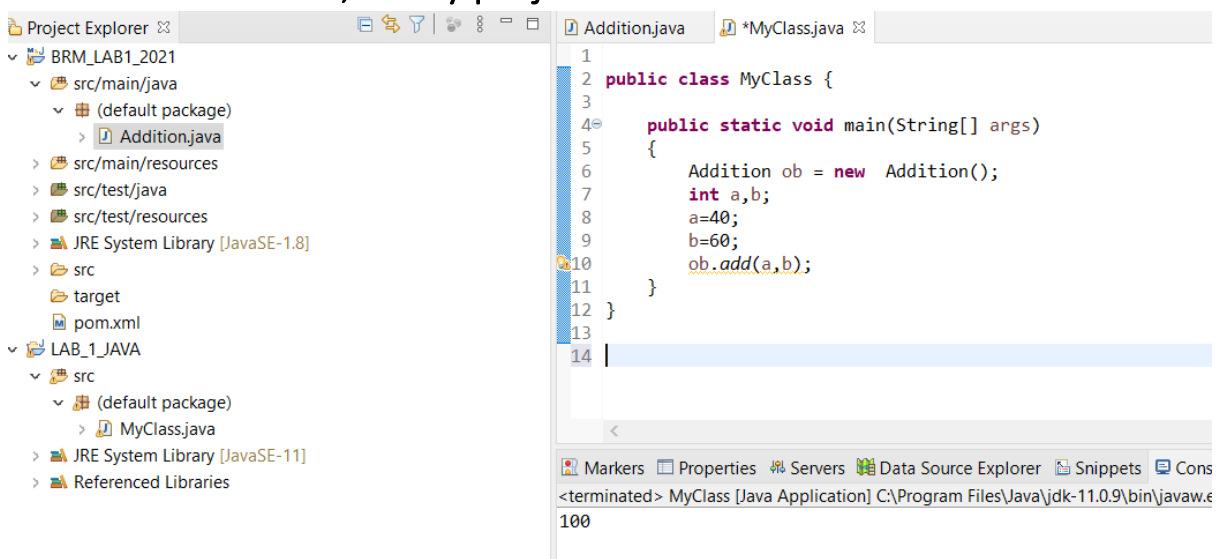


Name	Date modified	Type	Size
classes	21-01-2021 10:02	File folder	
maven-archiver	21-01-2021 10:03	File folder	
maven-status	21-01-2021 10:02	File folder	
test-classes	21-01-2021 10:02	File folder	
BRM_LAB1_2021-0.0.1-SNAPSHOT.jar	21-01-2021 10:03	WinRAR archive	3 KB

#### 5. Referencing the jar package path to another java project to use the components of this project.



#### 6. Now after giving the path to the jar package, we can use the classes defined in it, in any project.



#### RESULT:

Thus, successfully, built a jar package with maven using the goal maven install and referenced that jar in other project to access its components.