Build and Release Management
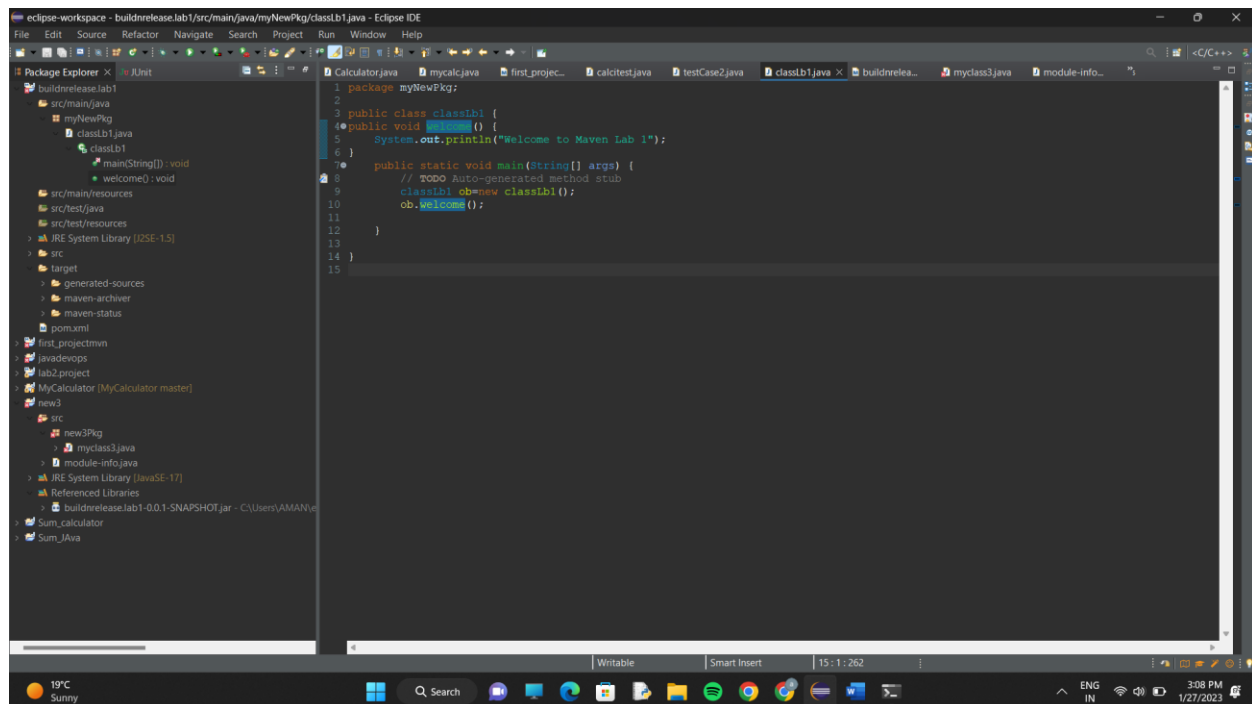# EXPERIMENT-3

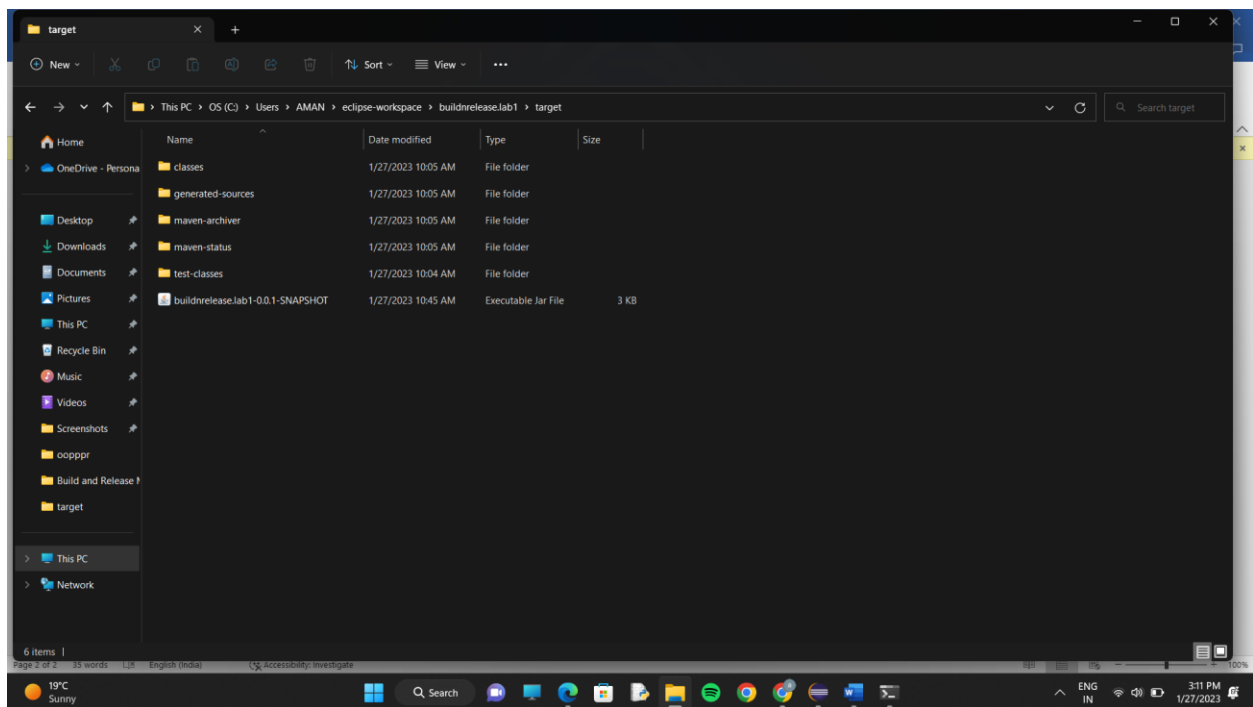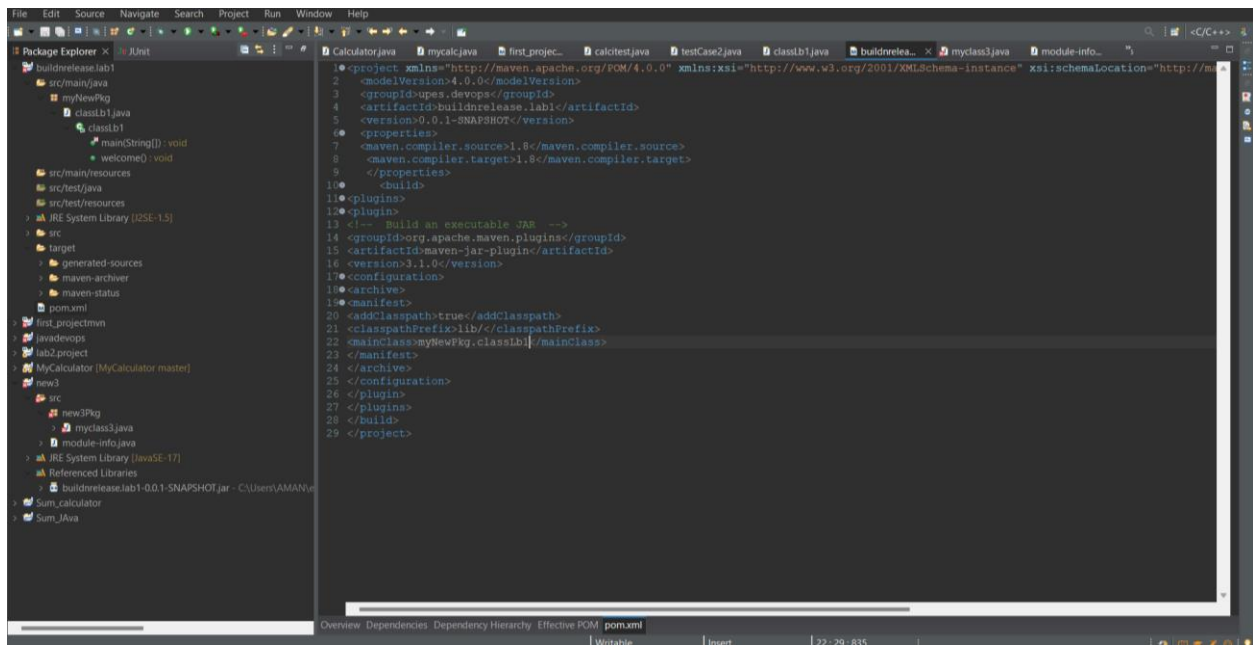Aman Gandhi

500091008

Aim: Maven Build and usage in other Java Project

1. Create a Build of java project using maven.

Eclipse IDE - Package Explorer and pom.xml editor

Package Explorer:
- buildnrelease.lab1
  - src/main/java
    - myNewPkg
      - classLb1.java
        - classLb1
          - main(String[]) : void
          - welcome() : void
  - src/main/resources
  - src/test/java
  - src/test/resources
  - JRE System Library [J2SE-1.5]
  - src
  - target
    - generated-sources
    - maven-archiver
    - maven-status
    - pom.xml
- first_projectmvn
- javadevops
- lab2.project
- MyCalculator [MyCalculator master]
- new3
  - src
    - new3Pkg
      - myclass3.java
    - module-info.java
  - JRE System Library [JavaSE-17]
  - Referenced Libraries
    - buildnrelease.lab1-0.0.1-SNAPSHOT.jar - C:\Users\AMAN\e
- Sum_calculator
- Sum_JAva

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://ma
    <modelVersion>4.0.0</modelVersion>
    <groupId>upes.devops</groupId>
    <artifactId>buildnrelease.lab1</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <properties>
        <maven.compiler.source>1.8</maven.compiler.source>
        <maven.compiler.target>1.8</maven.compiler.target>
    </properties>
        <build>
<plugins>
<plugin>
    <!--   Build an executable JAR   -->
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <version>3.1.0</version>
<configuration>
<archive>
<manifest>
    <addClasspath>true</addClasspath>
    <classpathPrefix>lib/</classpathPrefix>
    <mainClass>myNewPkg.classLb1</mainClass>
</manifest>
</archive>
</configuration>
</plugin>
</plugins>
</build>
</project>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

target

This PC > OS (C:) > Users > AMAN > eclipse-workspace > buildnrelease.lab1 > target

Name	Date modified	Type	Size
classes	1/27/2023 10:05 AM	File folder	
generated-sources	1/27/2023 10:05 AM	File folder	
maven-archiver	1/27/2023 10:05 AM	File folder	
maven-status	1/27/2023 10:05 AM	File folder	
test-classes	1/27/2023 10:04 AM	File folder	
buildnrelease.lab1-0.0.1-SNAPSHOT	1/27/2023 10:45 AM	Executable Jar File	3 KB

6 items

2. Use that build in some other Java Project.

```java
package pkg1;
import mypkg.mycalc;
public class importing_func {



    public static void main (String args[]){
mycalc ob=new mycalc();

System.out.println(ob.multi(10,2));

}}



```