

# **Build and Release Management Lab File**

## **Experiment -1**

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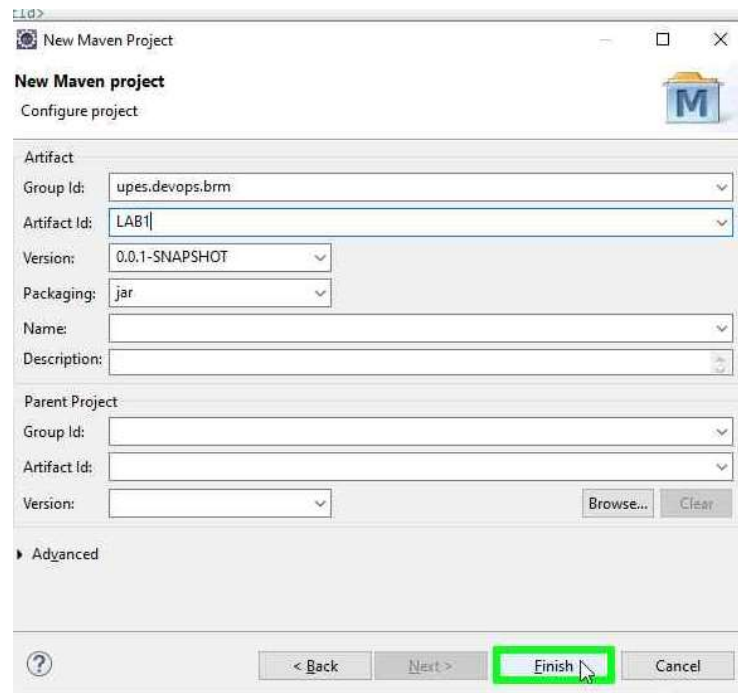
Branch: B-Tech-CSE-DevOps

SAP-ID: 500076607

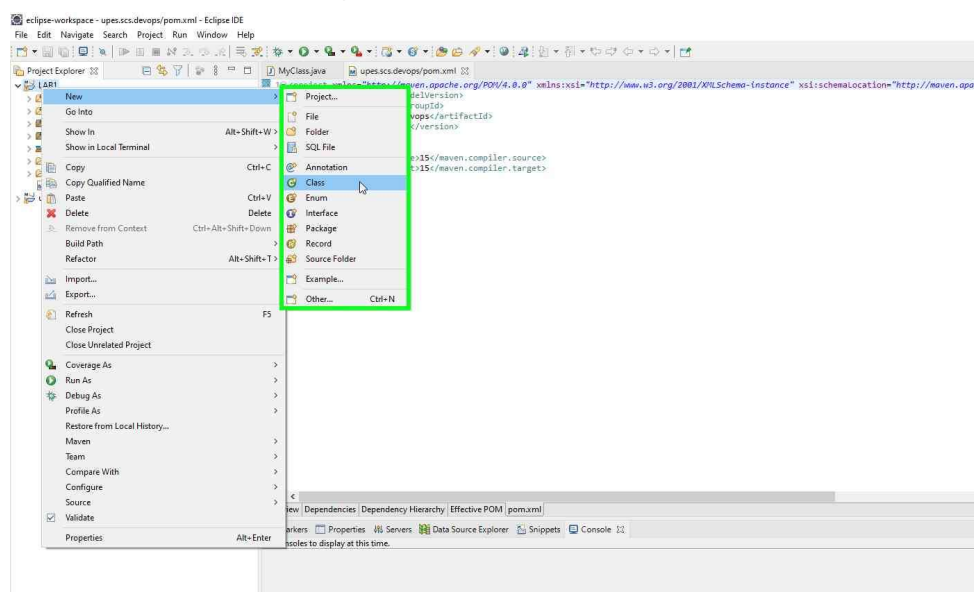
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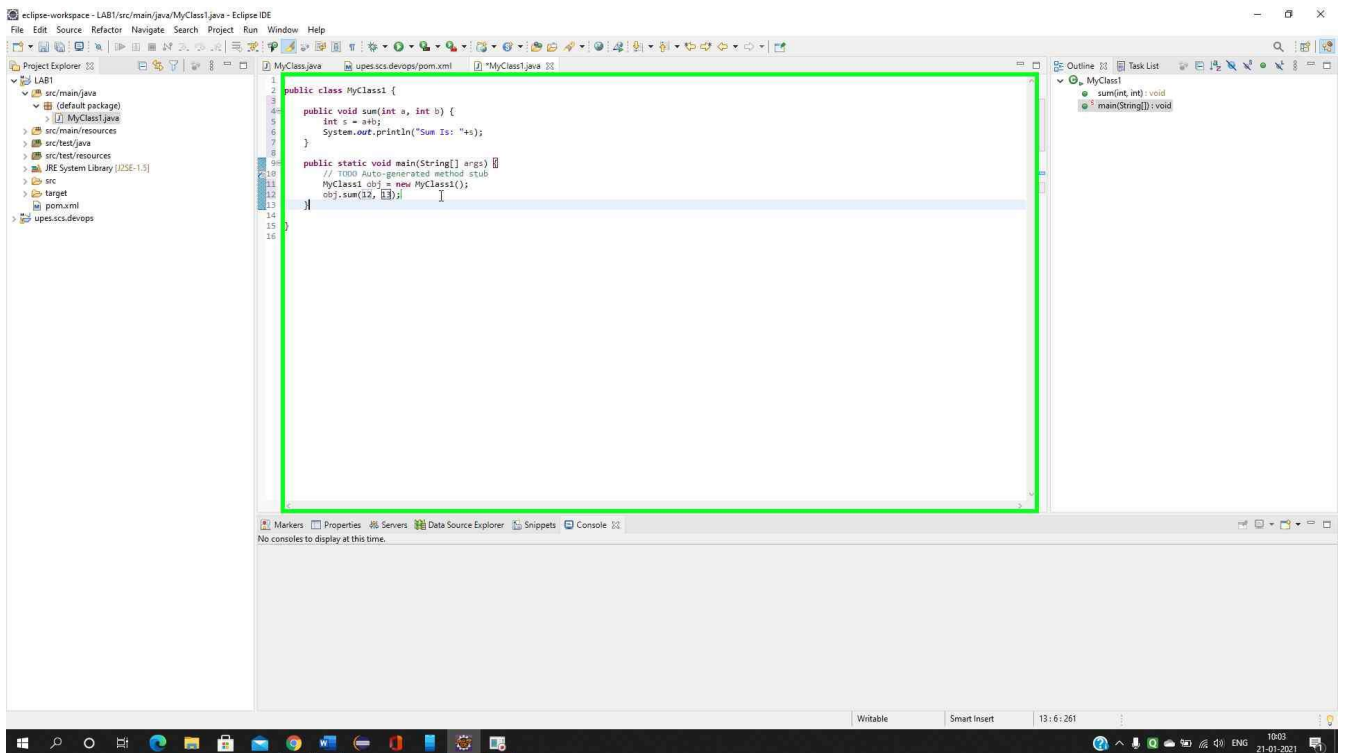
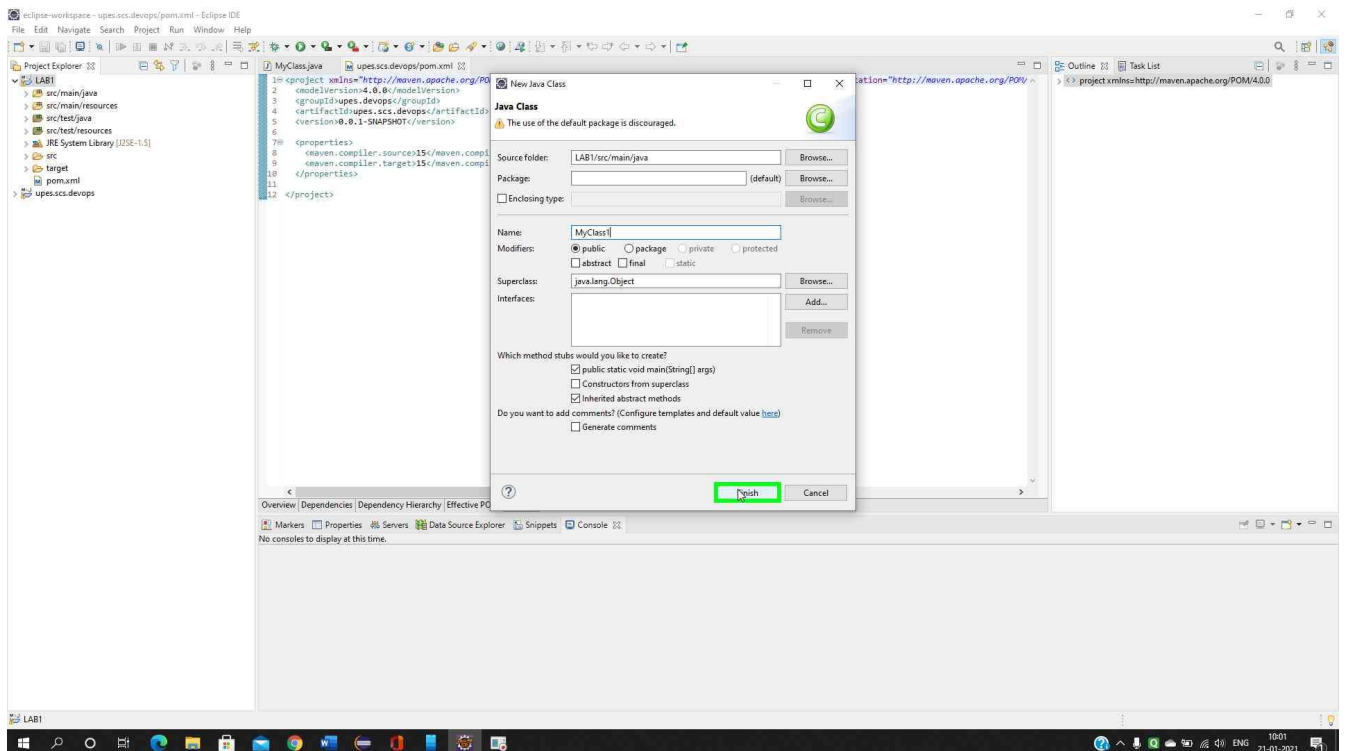
# 1. Create a Java file Using Maven.

- Creating a Simple Maven Project



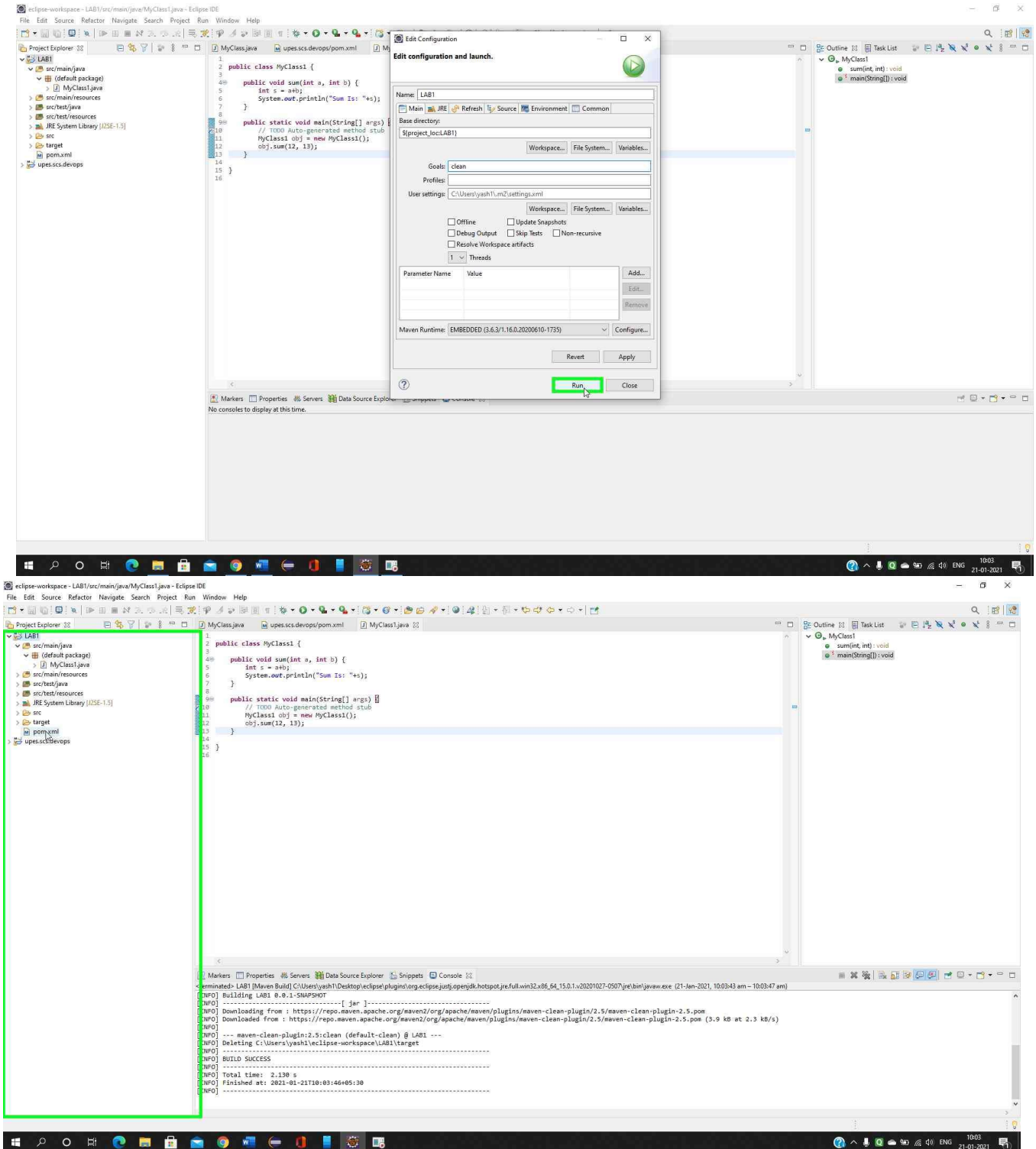
- Creating a Class with the Following code in Maven Project.



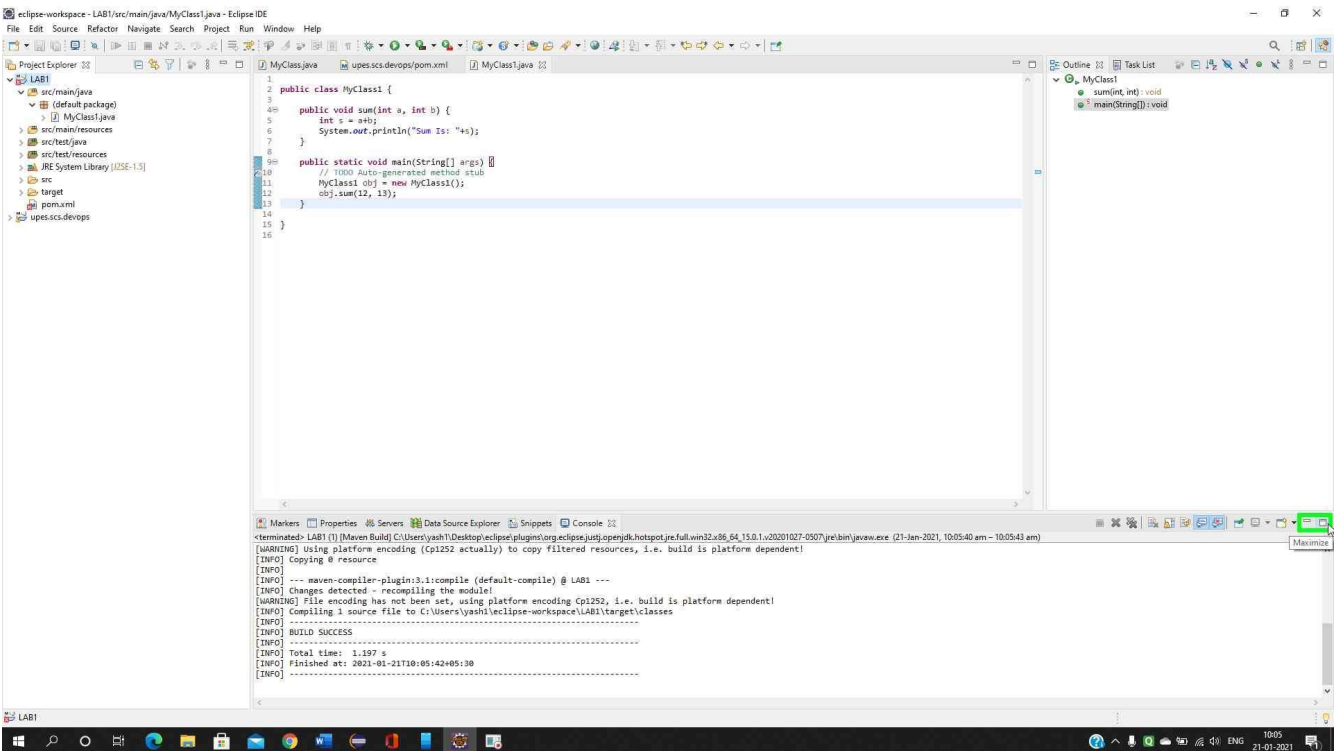
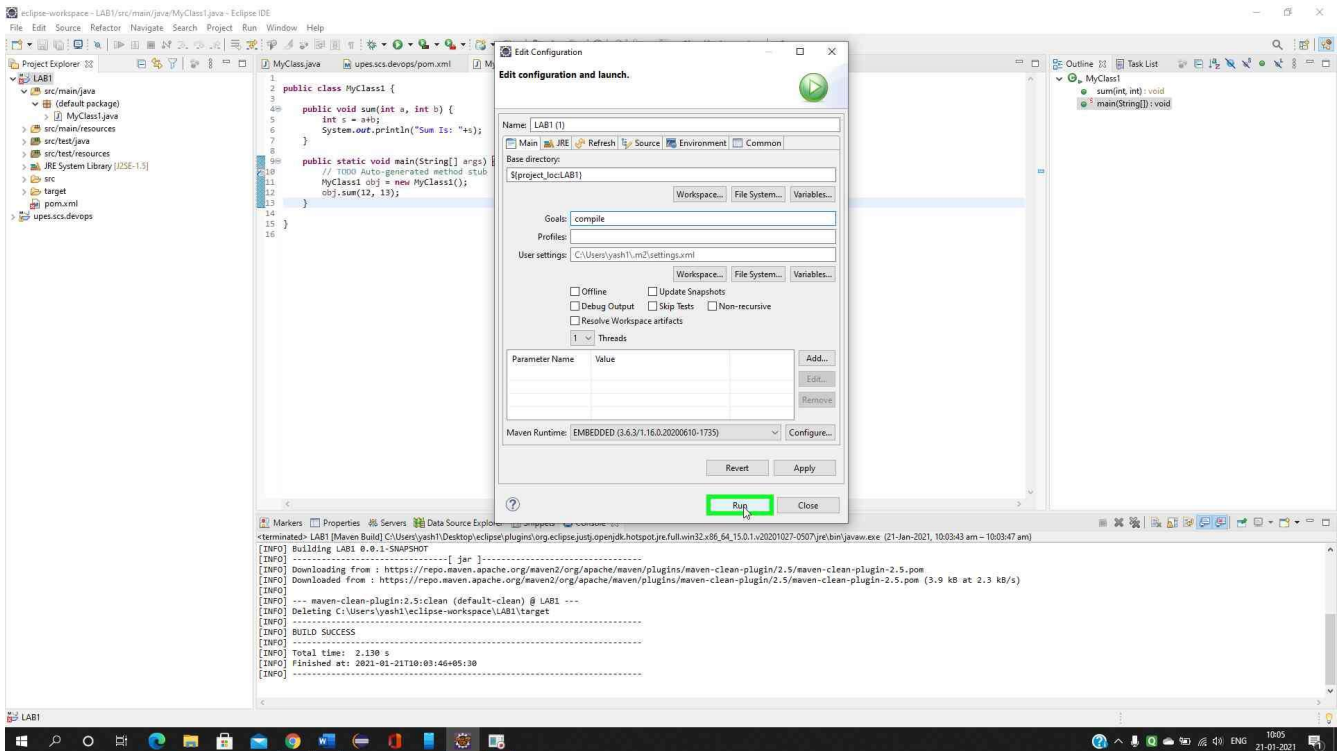


## 2. Run the following maven goals on this project

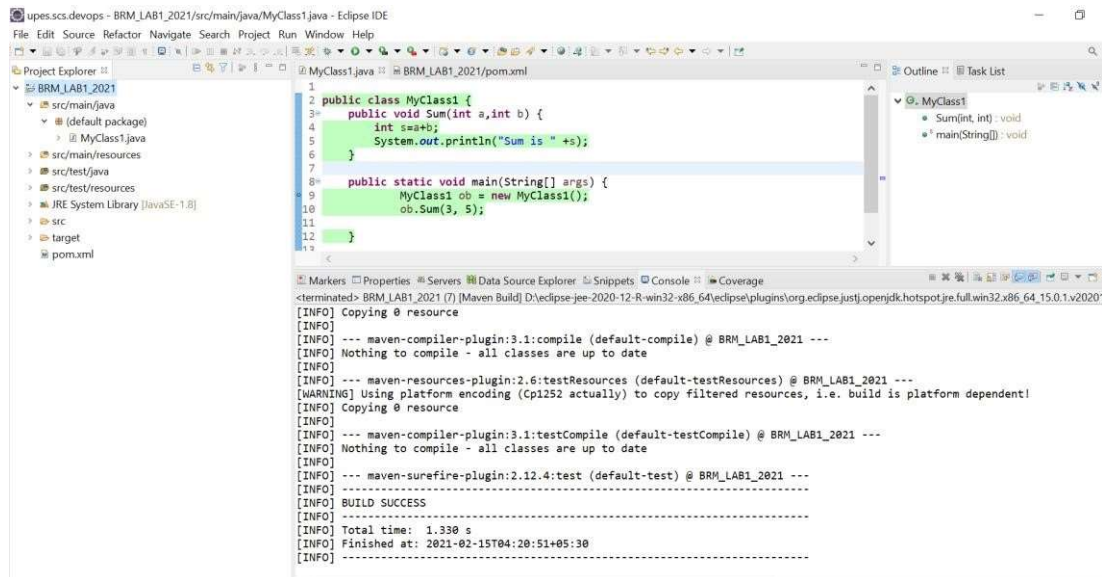
- Clean



- Compile



## • Test-Compile

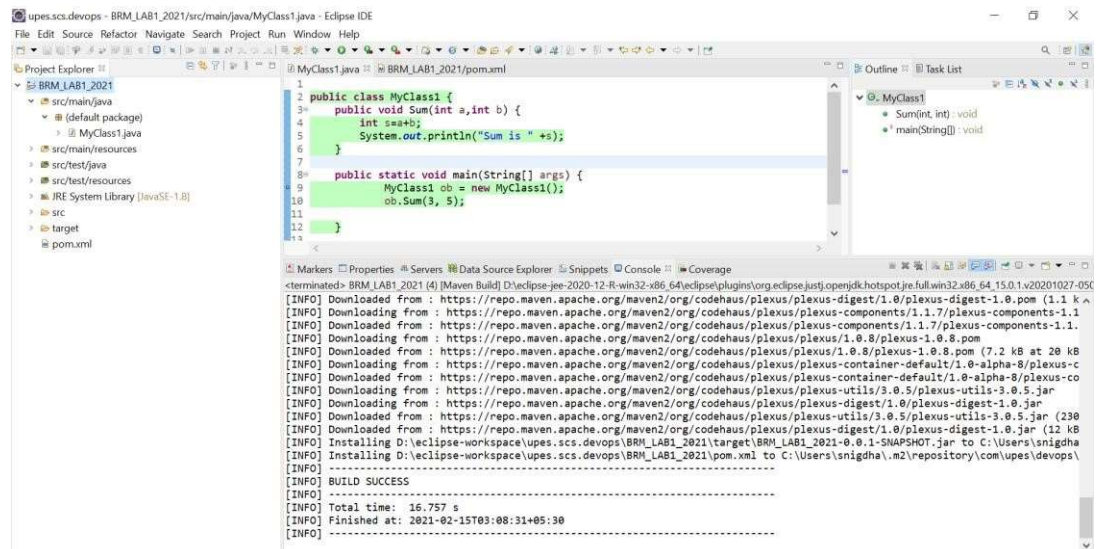


The screenshot shows the Eclipse IDE with the project BRM\_LAB1\_2021. The Project Explorer on the left shows the project structure: src/main/java, src/main/resources, src/test/java, src/test/resources, JRE System Library [JavaSE-1.8], src, target, and pom.xml. The MyClass1.java file is open in the editor, showing a public class MyClass1 with a Sum method and a main method. The Console window at the bottom shows the output of the Maven test-compile command, indicating that the build was successful.

```
1 public class MyClass1 {
2     public void Sum(int a,int b) {
3         int s=a+b;
4         System.out.println("Sum is " +s);
5     }
6
7
8     public static void main(String[] args) {
9         MyClass1 ob = new MyClass1();
10        ob.Sum(3, 5);
11    }
12
13 }
```

```
<terminated> BRM_LAB1_2021 [7] [Maven Build] D:\eclipse-jee-2020-12-R-win32-x86_64\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.15.0.1.v20201027-05C
[INFO] Copying 0 resource
[INFO]
--- maven-compiler-plugin:3.1:compile (default-compile) @ BRM_LAB1_2021 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
--- maven-resources-plugin:2.6:testResources (default-testResources) @ BRM_LAB1_2021 ---
[WARNING] Using platform encoding (Cp1252 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_2021 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
--- maven-surefire-plugin:2.12.4:test (default-test) @ BRM_LAB1_2021 ---
[INFO]
-----
[INFO] BUILD SUCCESS
[INFO]
-----
[INFO] Total time: 1.330 s
[INFO] Finished at: 2021-02-15T04:20:51+05:30
[INFO]
-----
```

## • Install



The screenshot shows the Eclipse IDE with the project BRM\_LAB1\_2021. The Project Explorer on the left shows the project structure: src/main/java, src/main/resources, src/test/java, src/test/resources, JRE System Library [JavaSE-1.8], src, target, and pom.xml. The MyClass1.java file is open in the editor, showing a public class MyClass1 with a Sum method and a main method. The Console window at the bottom shows the output of the Maven install command, indicating that the build was successful and dependencies were downloaded.

```
1 public class MyClass1 {
2     public void Sum(int a,int b) {
3         int s=a+b;
4         System.out.println("Sum is " +s);
5     }
6
7
8     public static void main(String[] args) {
9         MyClass1 ob = new MyClass1();
10        ob.Sum(3, 5);
11    }
12
13 }
```

```
<terminated> BRM_LAB1_2021 [4] [Maven Build] D:\eclipse-jee-2020-12-R-win32-x86_64\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.15.0.1.v20201027-05C
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.pom (1.1 k
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-components/1.1.7/plexus-components-1.1
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-components/1.1.7/plexus-components-1.1
[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 20 kB
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-8/plexus-co
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-8/plexus-co
[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-digest/1.0/plexus-digest-1.0.jar (230
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (12 kB
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.jar (12 kB
[INFO] Installing D:\eclipse-workspace\upes.scs.devops\BRM_LAB1_2021\target\BRM_LAB1_2021-0.0.1-SNAPSHOT.jar to C:\Users\snigdha
[INFO] Installing D:\eclipse-workspace\upes.scs.devops\BRM_LAB1_2021\pom.xml to C:\Users\snigdha\m2\repository\com\upes\devops\
[INFO]
-----
[INFO] BUILD SUCCESS
[INFO]
-----
[INFO] Total time: 16.757 s
[INFO] Finished at: 2021-02-15T03:08:31+05:30
[INFO]
-----
```

### 3. Using the jar file in another java file

