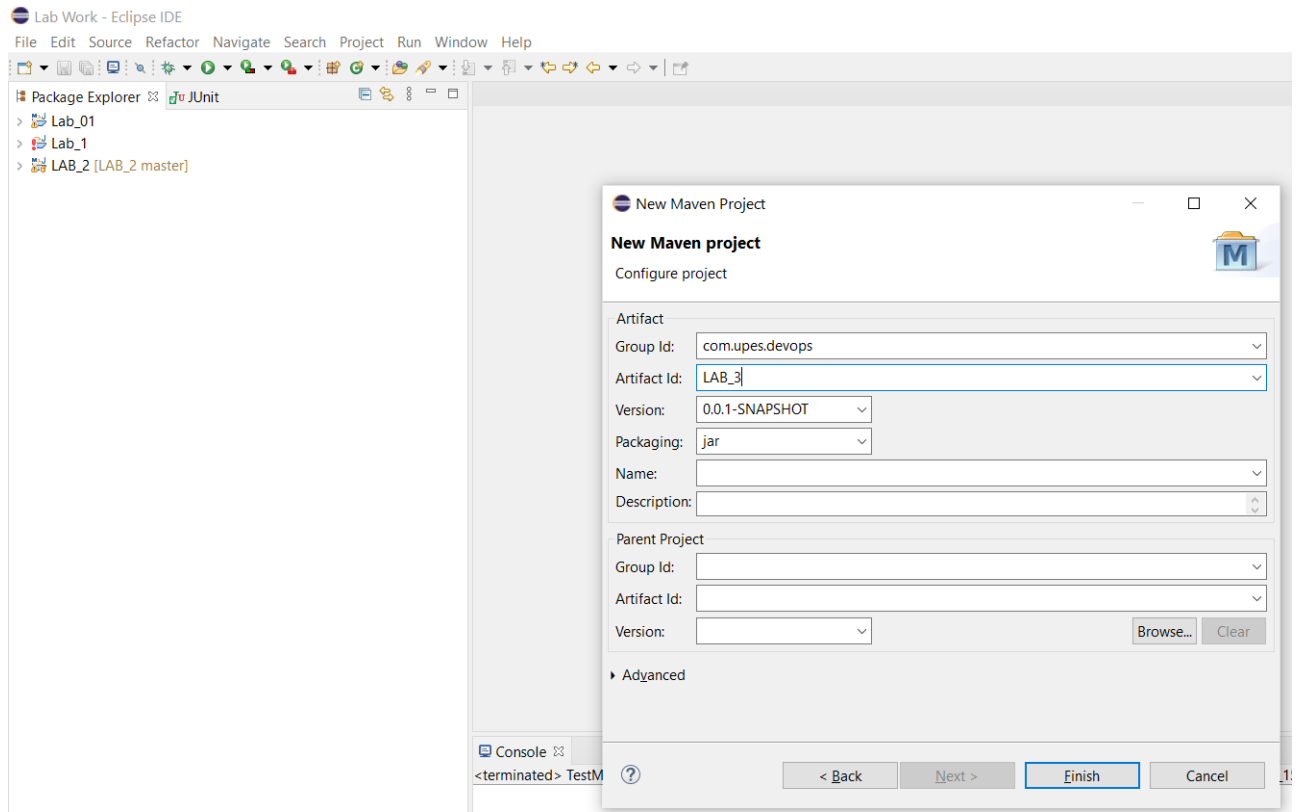
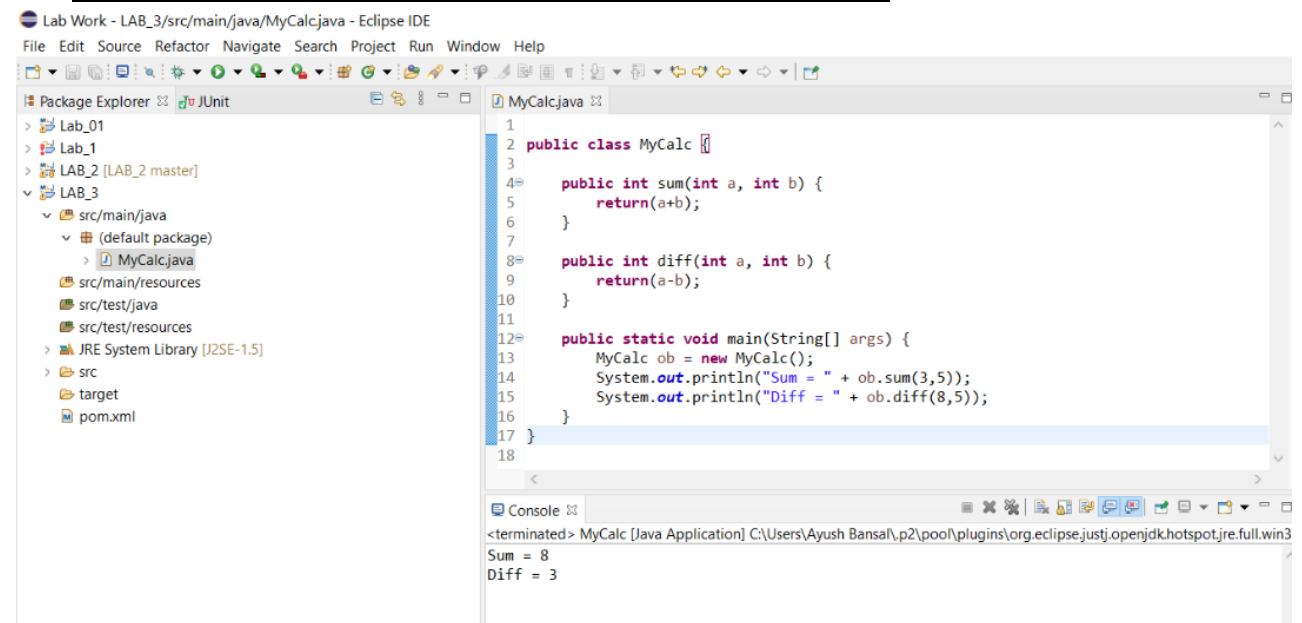


**NAME:** AYUSH BANSAL  
**SAP ID:** 500075782  
**ROLL NO:** R171219009  
**BRANCH:** DEVOPS.

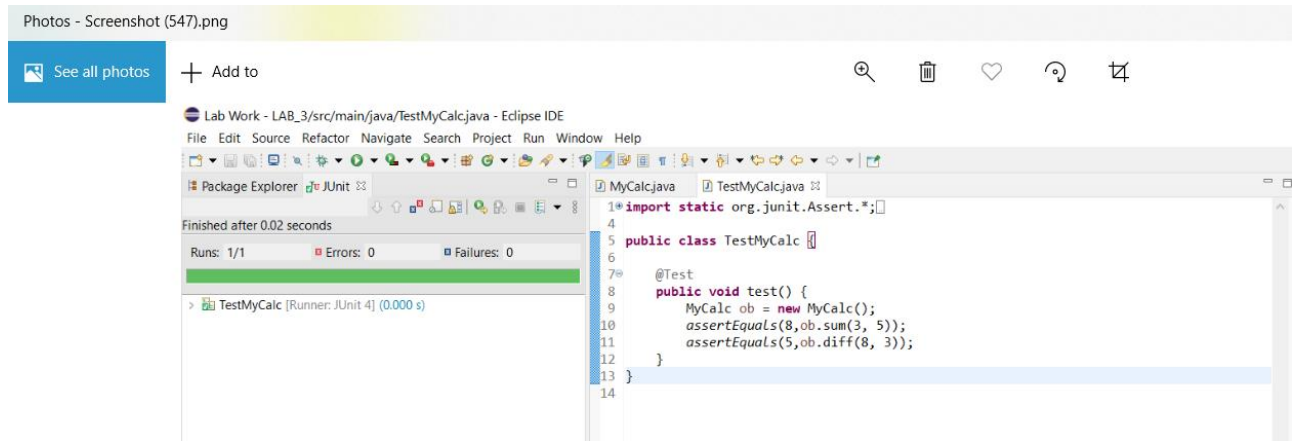
## CREATING A SIMPLE MAVEN PROJECT



## CREATE A CLASS IN MAVEN PROJECT

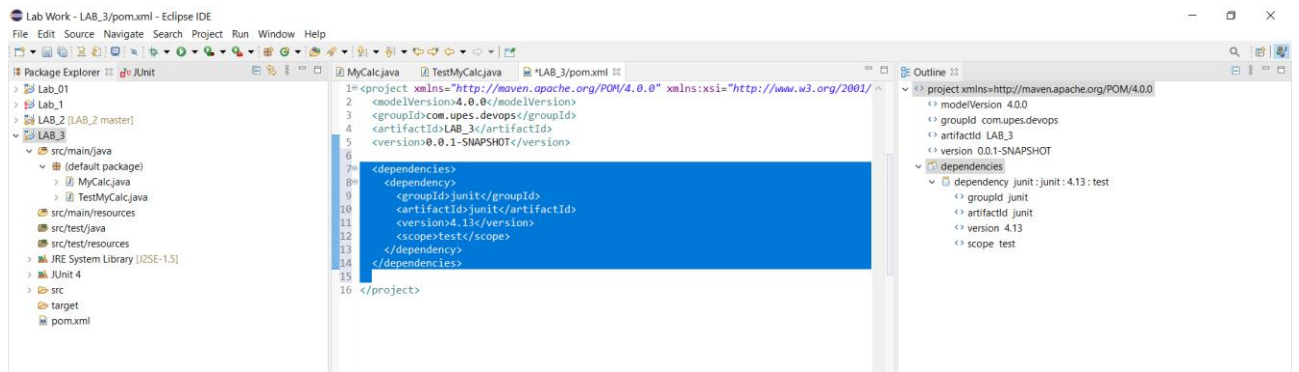


## ❑ CREATE A JUNIT TEST CASE PROJECT



## ❑ EDIT THE POM.XML FILE WITH THE HIGHLIGHTED CODE

- ✓ Changing the pom.xml file is necessary to run maven goals because we have made a junit project and to run maven goals in junit project we have to add dependencies in pom.xml file.



## ❏ RUN THE MAVEN GOALS

### • TEST

Lab Work - LAB\_3/pom.xml - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit

- Lab\_01
- Lab\_1
- LAB\_2 [LAB\_2 master]
- LAB\_3
  - src/main/java
    - (default package)
      - MyCalc.java
      - TestMyCalc.java
    - src/main/resources
    - src/test/java
    - src/test/resources
  - JRE System Library [J2SE-1.5]
  - Maven Dependencies
  - JUnit 4
  - src
  - target
  - pom.xml

MyCalc.java TestMyCalc.java LAB\_3/pom.xml

```
4 <artifactId>LAB_3</artifactId>
5 <version>0.0.1-SNAPSHOT</version>
6
7 <dependencies>
8   <dependency>
9     <groupId>junit</groupId>
10    <artifactId>junit</artifactId>
11    <version>4.13</version>
12    <scope>test</scope>
13  </dependency>
14 </dependencies>
15
16 </project>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Console

```
<terminated> LAB_3 (1) [Maven Build] C:\Users\Ayush Bansal\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x
[INFO] Building LAB_3 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ LAB_3 ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ LAB_3 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ LAB_3 ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ LAB_3 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ LAB_3 ---
[INFO] BUILD SUCCESS
[INFO] Total time: 1.371 s
[INFO] Finished at: 2021-02-15T23:47:24+05:30
[INFO] -----
```

### • INSTALL

Lab Work - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Package Explorer JUnit

- Lab\_01
- Lab\_1
- LAB\_2 [LAB\_2 master]
- LAB\_3
  - src/main/java
    - (default package)
      - MyCalc.java
      - TestMyCalc.java
    - src/main/resources
    - src/test/java
    - src/test/resources
  - JRE System Library [J2SE-1.5]
  - Maven Dependencies
    - hamcrest-core-1.3.jar - C:\Users\Ayush Bansal\m2\repository\
    - junit-4.13.jar - C:\Users\Ayush Bansal\m2\repository\junit\
  - JUnit 4
  - src
  - target
  - pom.xml

LAB\_3/pom.xml Console

```
<terminated> LAB_3 (2) [Maven Build] C:\Users\Ayush Bansal\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.15.0.1.v20201027-0507\jre\bin\javaw.exe (15-Feb-2021, 11:58
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/Ayush%20Bansal/p2/pool/plugins/org.eclipse.m2e.maven.runtime.slf4j.simple.1.16.0.20200610-1735/
SLF4J: Found binding in [file:/D:/Eclipse/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] -----< com.upes.devops:LAB_3 >-----
[INFO] Building LAB_3 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ LAB_3 ---
[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:compile (default-compile) @ LAB_3 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ LAB_3 ---
[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) @ LAB_3 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ LAB_3 ---
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ LAB_3 ---
[INFO] Building jar: E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_3\target\LAB_3-0.0.1-SNAPSHOT.jar
[INFO] --- maven-install-plugin:2.4:install (default-install) @ LAB_3 ---
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_3\target\LAB_3-0.0.1-SNAPSHOT.jar to C:\Users\Ayush Bansal\m2\re
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_3\pom.xml to C:\Users\Ayush Bansal\m2\repository\com\upes\devops
[INFO] BUILD SUCCESS
[INFO] Total time: 1.324 s
[INFO] Finished at: 2021-02-15T23:58:54+05:30
[INFO] -----
```

There is no active editor that provides an outline.

