## Build and Release Management Lab Experiment 3

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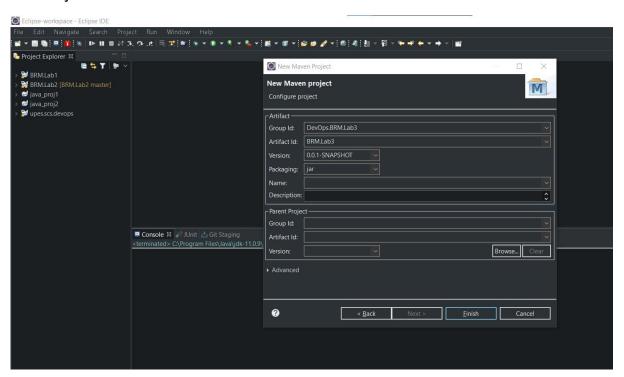
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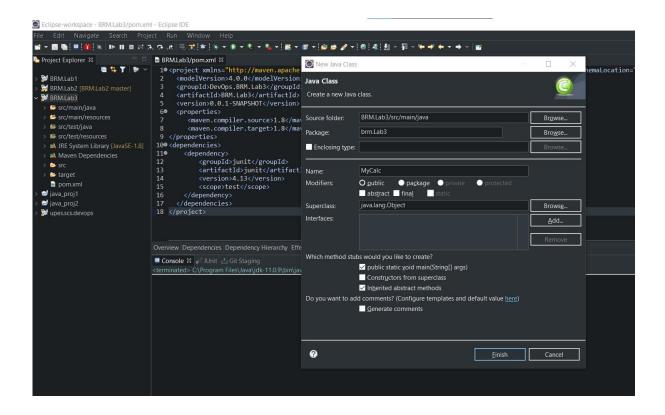
SAP ID.: 500075964

Branch: B.Tech-CSE-DevOps

**Aim:** Create a maven project with a java class and create a junit test case to test the java code in the project with a goal: test.

**Step 1:** Create a Maven project and a Java Class in it and add some java code in the class file.





```
Eclipse-workspace - BRM, Lab3/src/main/iava/brm/Lab3/MvCalc.iava - Eclipse IDE
     Project Explorer 

BRM.Lab3;

BRM.Lab2 [BRM.Lab2 master]

BRM.Lab3

BRM.Lab
   Project Explorer 

□
       BRM.Lab3
                       src/main/resources
                                                                                                                                                                                                                  return a-b;
                       Mayen Dependencies
                       src 📂
                       target
                                                                                                                                                                                                             MyCalc ob = new MyCalc();
                       i pom.xml
             java_proj1
                                                                                                                                                                                                                    System.out.println(" Sum = " + ob.sum(10, 30));
System.out.println(" Diff = " + ob.diff(10, 3));
              📂 java_proj2
                                                                                                                                                              22
23 }
24
                                                                                                                                                           ■ Console 🛭 📶 JUnit 占 Git Staging
                                                                                                                                                             Sum = 40
Diff = 7
```

**Step 2:** Now add the following dependency in the "prom.xml" file in the project folder.

```
<dependencies>
                              <dependency>
                                                             <groupId>junit
                                                              <artifactId>junit</artifactId>
                                                             <version>4.13</version>
                                                             <scope>test</scope>
                              </dependency>
</dependencies>
Eclipse-workspace - BRM.Lab3/pom.xml - Eclipse IDE
                 Edit Source Navigate Search Project Run Window Help
   = □ MBRM.Lab3/pom.xml 🛭 🗓 MyCalc.java
                                                  ■ BRMLab3/pom.xml ⋈ MyCalcjava

■ はず ♥ □ ⟨project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-insta
2 ⟨modelVersion>4.0.0</modelVersion>
3 ⟨groupId>DevOps.BRM.Lab3</groupId>
4 ⟨artifactId>BRM.Lab3</artifactId>
5 ⟨version>0.0.1-SNAPSHOT</version>
6 ⟨properties>
7 ⟨maven.compiler.source>1.8</maven.compiler.source>
8 ⟨maven.compiler.target>1.8</maven.compiler.target>
10 ⟨dependencies>
11 ⟨dependency>
       BRM.Lab1
       BRM.Lab2 [BRM.Lab2 master]
      ₩ BRM.Lab3

✓ 

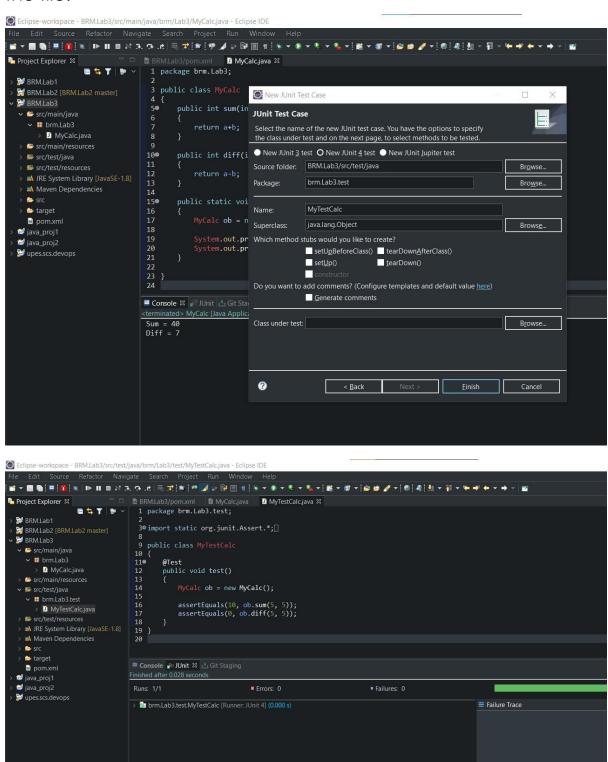
src/main/java

✓ 

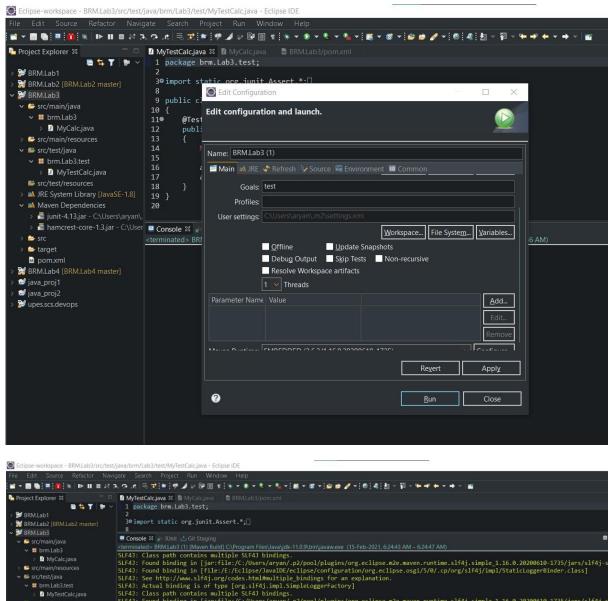
B brm.Lab3

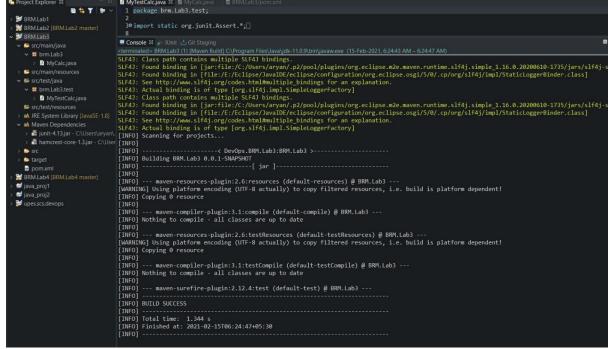
                    > 🗓 MyCalc.java
            src/main/resources
          src/test/iava
                                                                                            110 <dependency>
12 <groupId>junit</groupId>
13 <artifactId>junit</artifactId>
14 <version>4.13</version>
15 <scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/scopenhast/
           > 🎏 src
                                                                                           16 </dependencies>
          > 🗁 target
              Imx.mog ™
                                                                                            18 </project>
        java_proj1
        iava_proj2
        wupes.scs.devops
                                                                                           Overview Dependencies Dependency Hierarchy Effective POM pom.xml
```

<u>Step 3:</u> Now create a JUnit Test Case and add some test cases in the 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 "test" (shown below).





**Result:** Hence we successfully created a maven project and tested it with a JUnit Test Case.