

BUILD AND RELEASE MANAGEMENT LAB FILE

**LAB 3
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DEVOPS 2ND YEAR
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- Create a java file

The screenshot shows the Eclipse IDE with the `MyCalc.java` file open. The code defines a `MyCalc` class with two methods: `sum` and `diff`, and a `main` method that tests them. The console output shows the results of the `main` method.

```

1  public class MyCalc {
2
3
4  public int sum(int a, int b)
5  {
6      return (a+b);
7  }
8
9  public int diff(int a, int b)
10 {
11     return (a-b);
12 }
13
14 public static void main(String[] args) {
15     // TODO Auto-generated method stub
16     MyCalc ob = new MyCalc();
17     System.out.println("sum is: "+ob.sum(3, 4));
18     System.out.println("diff is: "+ob.diff(4, 3));
19 }
20 }
21
22 }
23

```

Console Output:

```

<terminated> MyCalc [Java Application] C:\Users\tanis\Downloads\eclipse-jee-2020-12-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.w
sum is: 7
diff is: 1

```

- Create a Junit test class file

The screenshot shows the Eclipse IDE with the `TestMyCalc.java` file open. The code defines a `TestMyCalc` class with a `test` method that uses JUnit assertions to verify the `sum` and `diff` methods. The JUnit test runner output shows the test passing.

```

1  import static org.junit.Assert.*;
2
3
4
5  public class TestMyCalc {
6
7
8  @Test
9  public void test() {
10     //fail("Not yet implemented");
11
12     MyCalc ob = new MyCalc();
13     assertEquals(5,ob.sum(2, 3));
14     assertEquals(3,ob.diff(8, 5));
15 }
16 }
17

```

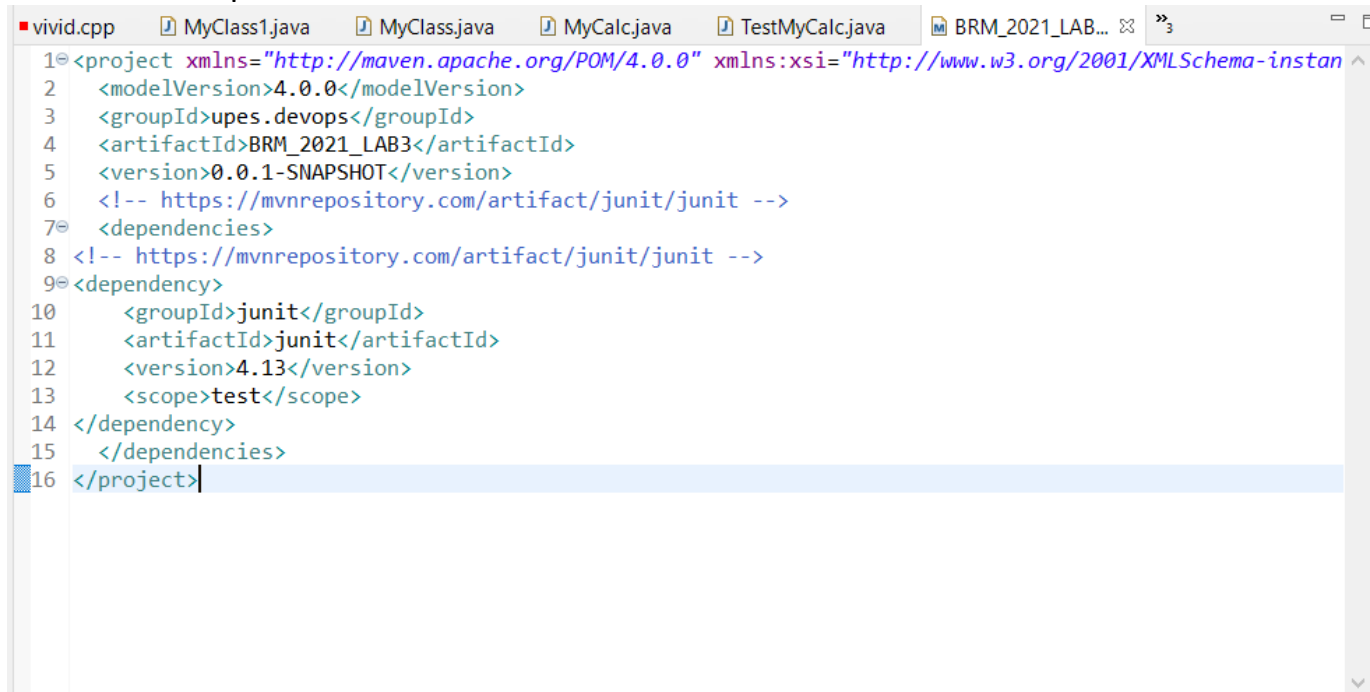
JUnit Test Runner Output:

```

Finished after 0.022 seconds
Runs: 1/1      Errors: 0      Failures: 0
TestMyCalc [Runner: JUnit 4] (0.000 s)
  test (0.000 s)

```


- Edit the pom.xml file




The screenshot shows an IDE with several tabs open: vivid.cpp, MyClass1.java, MyClass.java, MyCalc.java, TestMyCalc.java, and BRM_2021_LAB... The active tab is BRM_2021_LAB... which contains the pom.xml file. The code in the pom.xml file is as follows:

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
2   <modelVersion>4.0.0</modelVersion>
3   <groupId>upes.devops</groupId>
4   <artifactId>BRM_2021_LAB3</artifactId>
5   <version>0.0.1-SNAPSHOT</version>
6   <!-- https://mvnrepository.com/artifact/junit/junit -->
7   <dependencies>
8     <!-- https://mvnrepository.com/artifact/junit/junit -->
9     <dependency>
10       <groupId>junit</groupId>
11       <artifactId>junit</artifactId>
12       <version>4.13</version>
13       <scope>test</scope>
14     </dependency>
15   </dependencies>
16 </project>
```







- Run the test goal

 Edit Configuration

—
□
×

Edit configuration and launch.


Name:

 Main
  JRE
  Refresh
  Source
  Environment
  Common

Base directory:

Workspace...
File System...
Variables...

Goals:

Profiles:

User settings:

Workspace...
File System...
Variables...

☐ Offline
☐ Update Snapshots

☐ Debug Output
☐ Skip Tests
☐ Non-recursive

☐ Resolve Workspace artifacts

1
▼
Threads

Parameter Na...	Value

Add...
▼

Revert
Apply

?

Run
Close

- You will see that the build has passed along with all the tests.

