BUILD AND RELEASE MANAGEMENT
LAB FILE

LAB 3
4th FEBRUARY

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DEVOPS 2ND YEAR
4th SEMESTER

- Create a java file

```java
1
2 public class MyCalc {
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

<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

JUnit

Finished after 0.022 seconds

Runs: 1/1   Errors: 0   Failures: 0

TestMyCalc [Runner: JUnit 4] (0.000 s)
    test (0.000 s)

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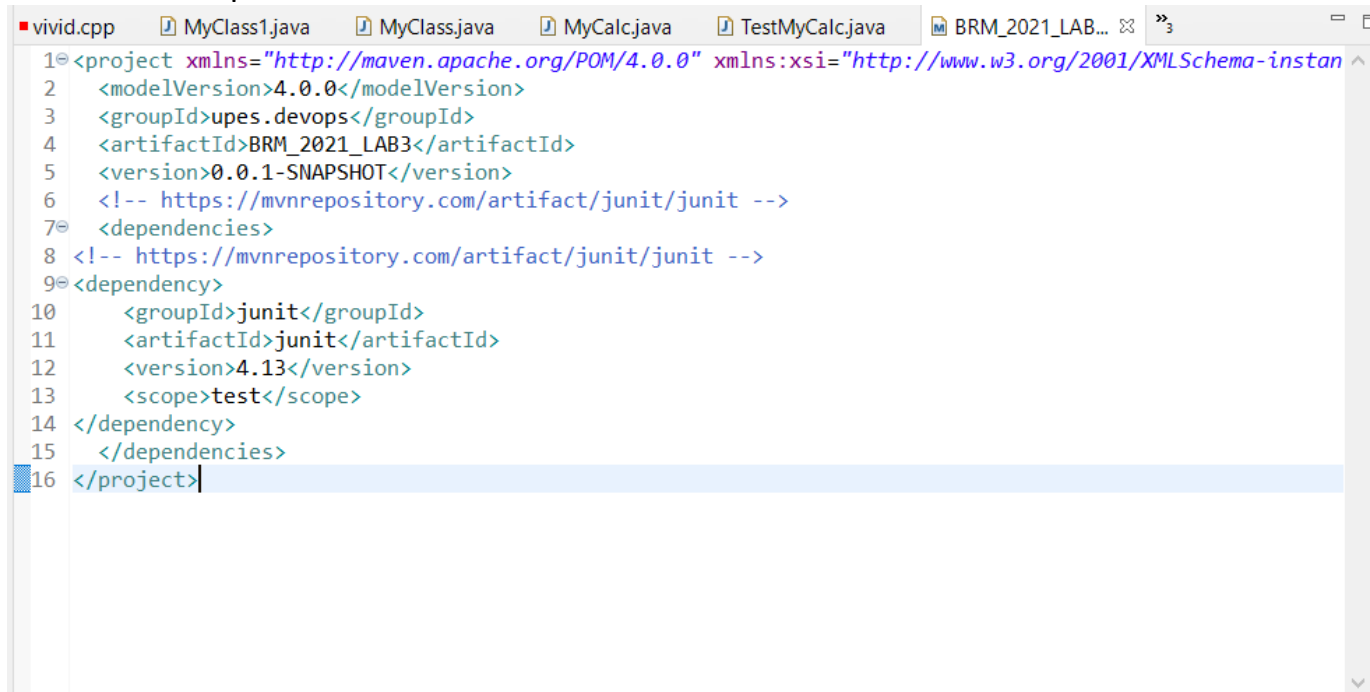
Failure Trace

- Edit the pom.xml file

```
  vivid.cpp    MyClass1.java    MyClass.java    MyCalc.java    TestMyCalc.java    BRM_2021_LAB...  ≫₃
 1  <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instan
 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

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