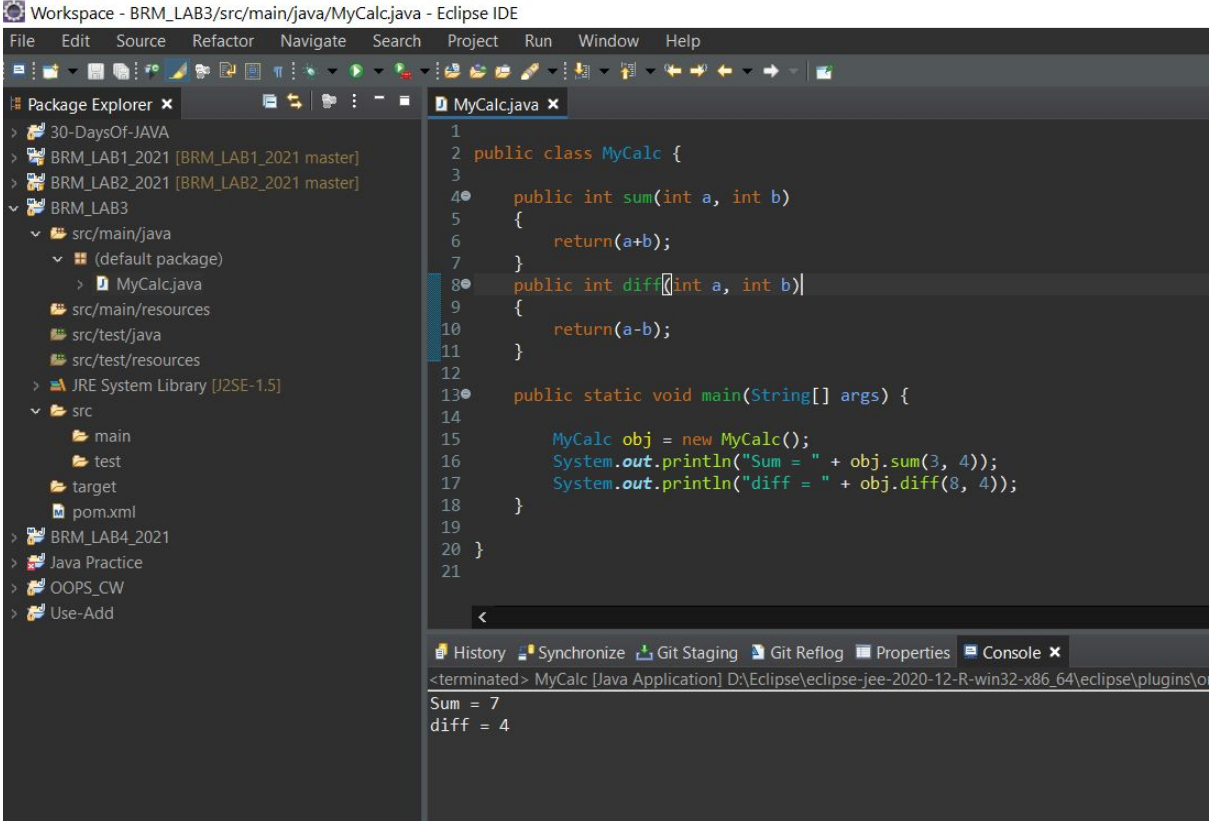


# EXPERIMENT - 3

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BATCH: **DEVOPS**  
SEMESTER: **4**

**AIM:** Building a project and running automated test with Junit

**- Creating a maven Project as BRM\_LAB3\_2021 and making a class named MyCalc.java**



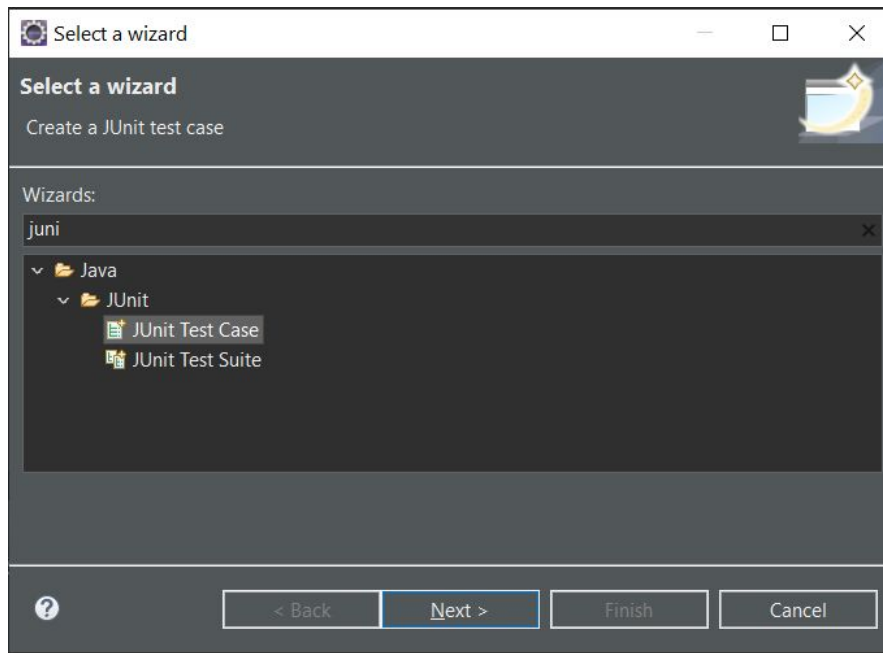
The screenshot shows the Eclipse IDE workspace for the project BRM\_LAB3\_2021. The Package Explorer on the left displays the project structure, including the src/main/java directory where MyCalc.java is located. The main editor shows the code for MyCalc.java, which includes two methods: sum and diff, and a main method that tests them. The Console at the bottom shows the output of the program, indicating that the sum of 3 and 4 is 7, and the difference of 8 and 4 is 4.

```
Workspace - BRM_LAB3/src/main/java/MyCalc.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer x MyCalc.java x
> 30-DaysOf-JAVA
> BRM_LAB1_2021 [BRM_LAB1_2021 master]
> BRM_LAB2_2021 [BRM_LAB2_2021 master]
v BRM_LAB3
  v src/main/java
    v (default package)
      > MyCalc.java
    src/main/resources
    src/test/java
    src/test/resources
  > JRE System Library [J2SE-1.5]
  v src
    main
    test
    target
  pom.xml
> BRM_LAB4_2021
> Java Practice
> OOPS_CW
> Use-Add

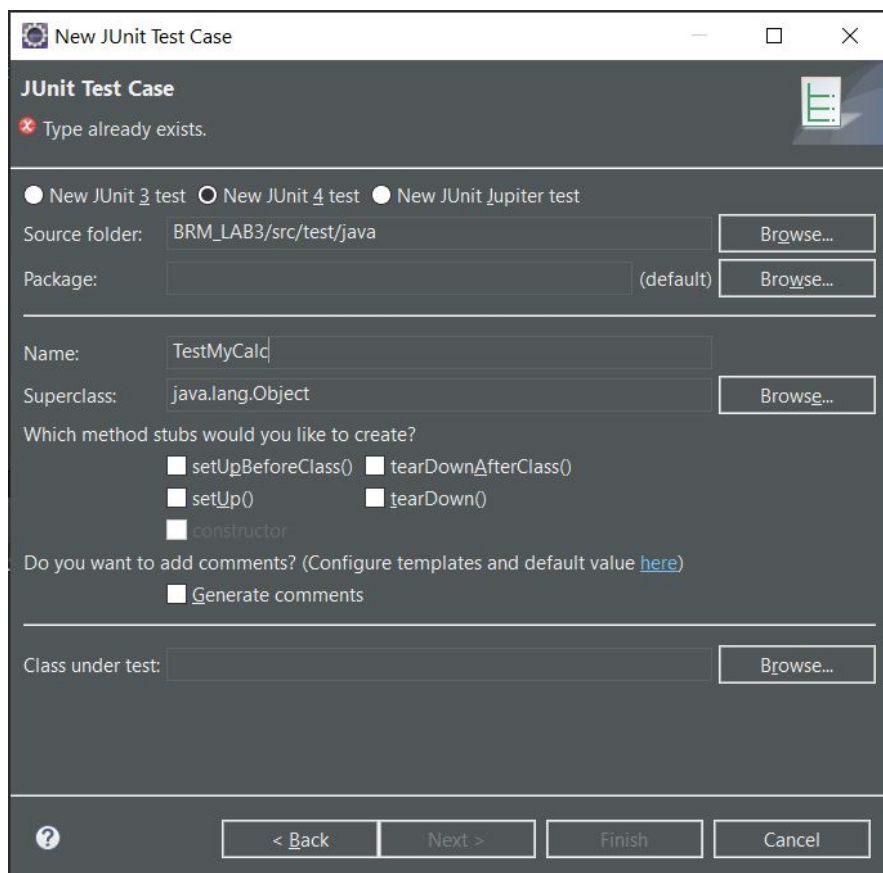
1
2 public class MyCalc {
3
4 public int sum(int a, int b)
5 {
6     return(a+b);
7 }
8 public int diff(int a, int b)
9 {
10    return(a-b);
11 }
12
13 public static void main(String[] args) {
14
15     MyCalc obj = new MyCalc();
16     System.out.println("Sum = " + obj.sum(3, 4));
17     System.out.println("diff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

History Synchronize Git Staging Git Reflog Properties Console x
<terminated> MyCalc [Java Application] D:\Eclipse\eclipse-je-2020-12-R-win32-x86_64\eclipse\plugins\o
Sum = 7
diff = 4
```

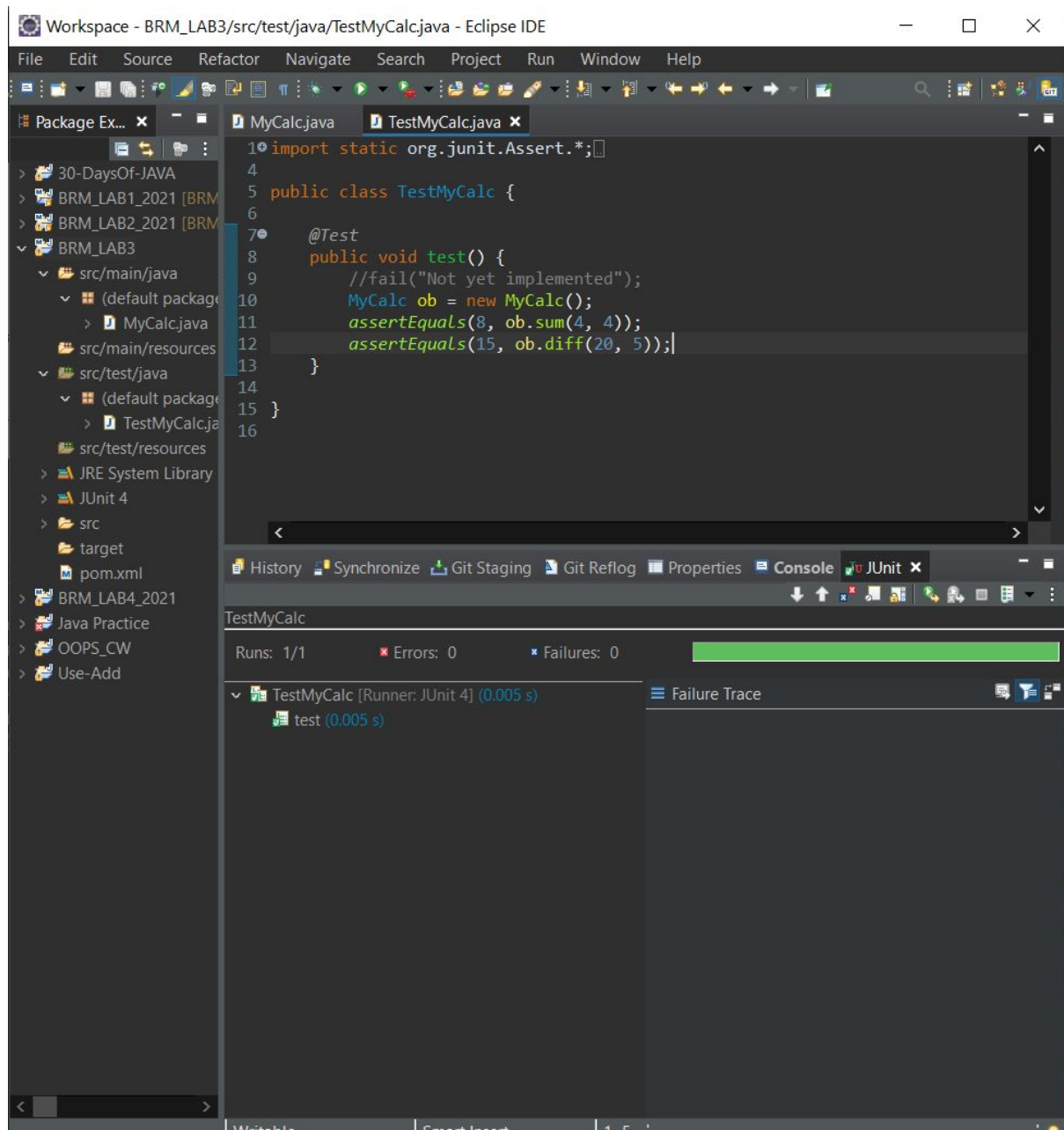
## - Creating a java program for Unit test using junit.



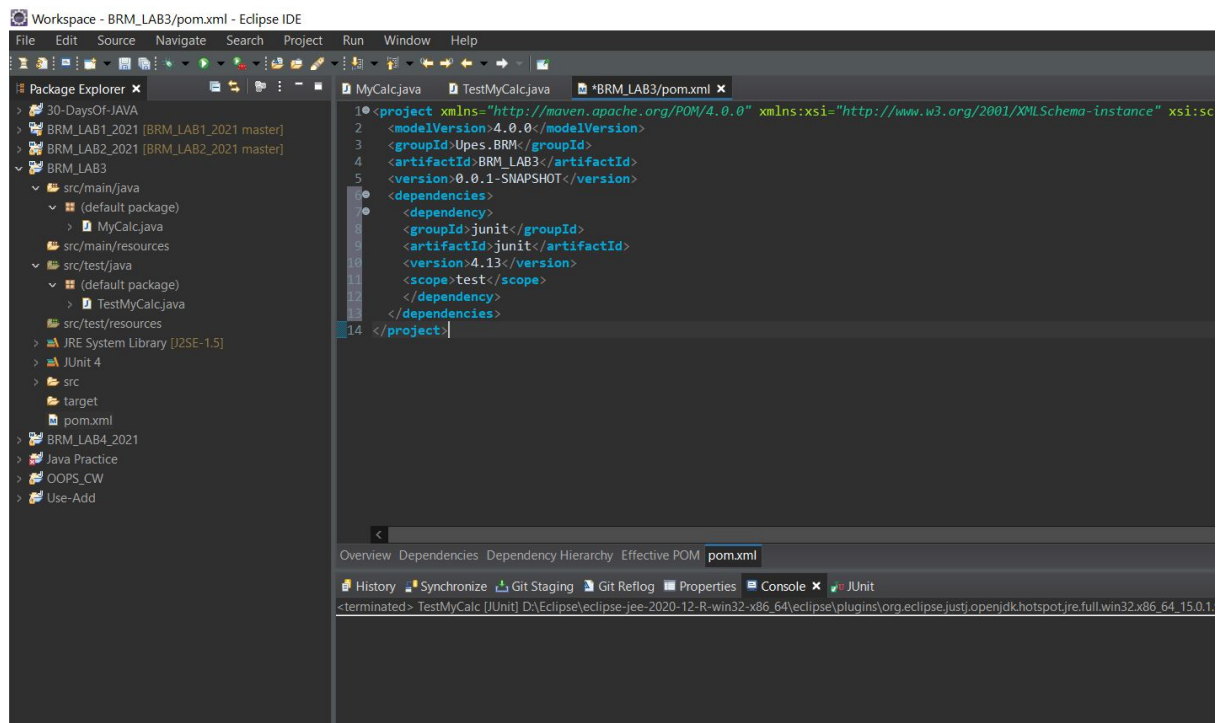
## - Now Creating file named as TestMyCalc



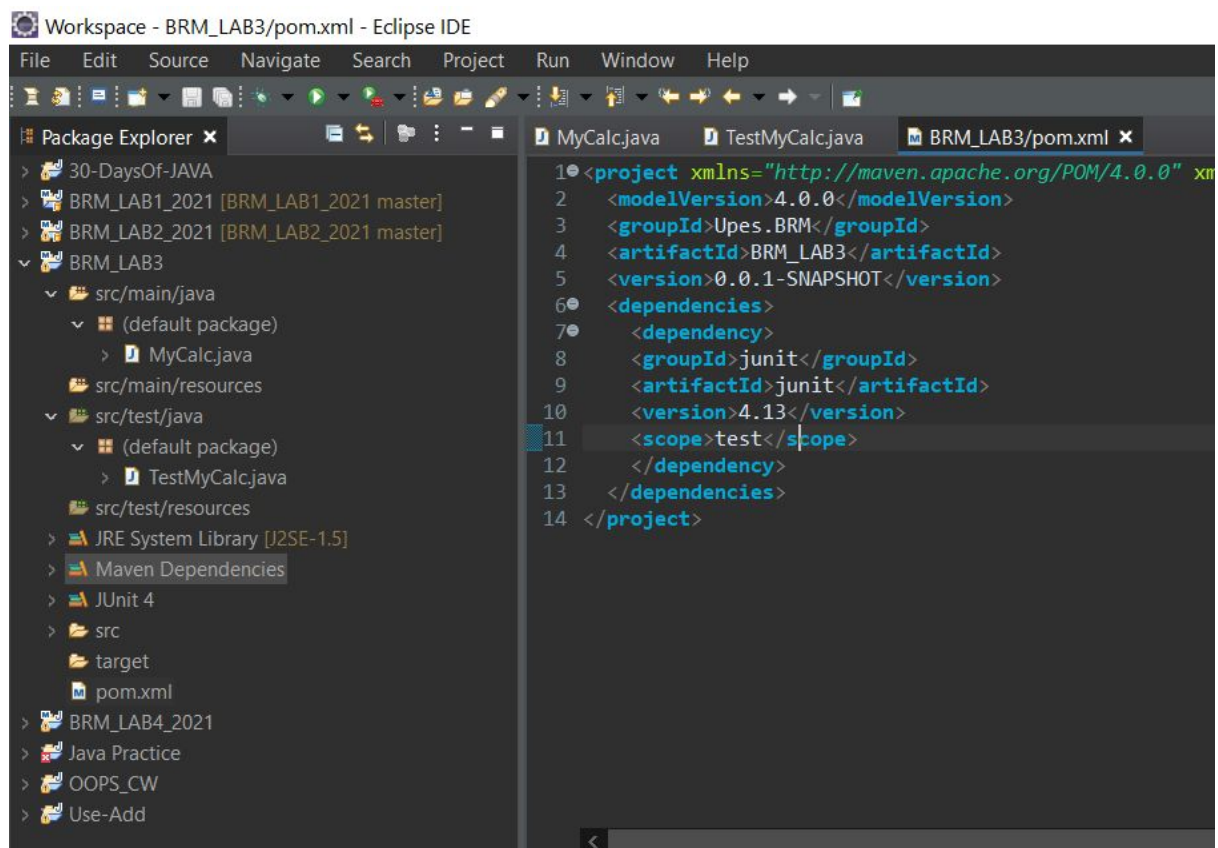
## - Now checking the MyCalc using TestMyCalc



- Adding latest dependency from web, on pom.xml file for the unit test case.
- This added dependency help to build the maven project, basically the test phase.



- Now showing maven dependencies added.



## - Run the project, set goal as “Test”

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure for BRM\_LAB3, including source folders for main and test code. The main editor shows the TestMyCalc.java file with a JUnit test class. The Console at the bottom shows the output of a Maven build, which includes several compilation errors related to deprecated source and target options.

Workspace - BRM\_LAB3/src/test/java/TestMyCalc.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer x

- > 30-DaysOf-JAVA
- > BRM\_LAB1\_2021 [BRM\_LAB1\_2021 master]
- > BRM\_LAB2\_2021 [BRM\_LAB2\_2021 master]
- > BRM\_LAB3
  - > src/main/java
    - > (default package)
      - > MyCalc.java
    - > src/main/resources
    - > src/test/java
      - > (default package)
        - > TestMyCalc.java
      - > src/test/resources
    - > JRE System Library [J2SE-1.5]
    - > Maven Dependencies
    - > JUnit 4
    - > src
    - > target
    - > pom.xml
  - > BRM\_LAB4\_2021
  - > Java Practice
  - > OOPS\_CW
  - > Use-Add

MyCalc.java TestMyCalc.java x BRM\_LAB3/pom.xml

```
1 import static org.junit.Assert.*;
2
3
4
5 public class TestMyCalc {
6
7     @Test
8     public void test() {
9         //fail("Not yet implemented");
10        MyCalc ob = new MyCalc();
11        assertEquals(8, ob.sum(4, 4));
12        assertEquals(15, ob.diff(20, 5));
13    }
14
15 }
16
```

History Synchronize Git Staging Git Reflog Properties Console x JUnit

<terminated> BRM\_LAB3 [Maven Build] D:\Eclipse\eclipse-jee-2020-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.justj

[INFO] Copying 0 resource

[INFO]

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ BRM\_LAB3 ---

[INFO] Changes detected - recompiling the module!

[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is p

[INFO] Compiling 1 source file to D:\Eclipse\Workspace\BRM\_LAB3\target\classes

[INFO] -----

[ERROR] COMPILATION ERROR :

[INFO] -----

[ERROR] Source option 5 is no longer supported. Use 7 or later.

[ERROR] Target option 5 is no longer supported. Use 7 or later.

[INFO] 2 errors

[INFO] -----

[INFO] -----