

# BUILD RELEASE AND MANAGEMENT

## LAB FILE -1

### AIM:

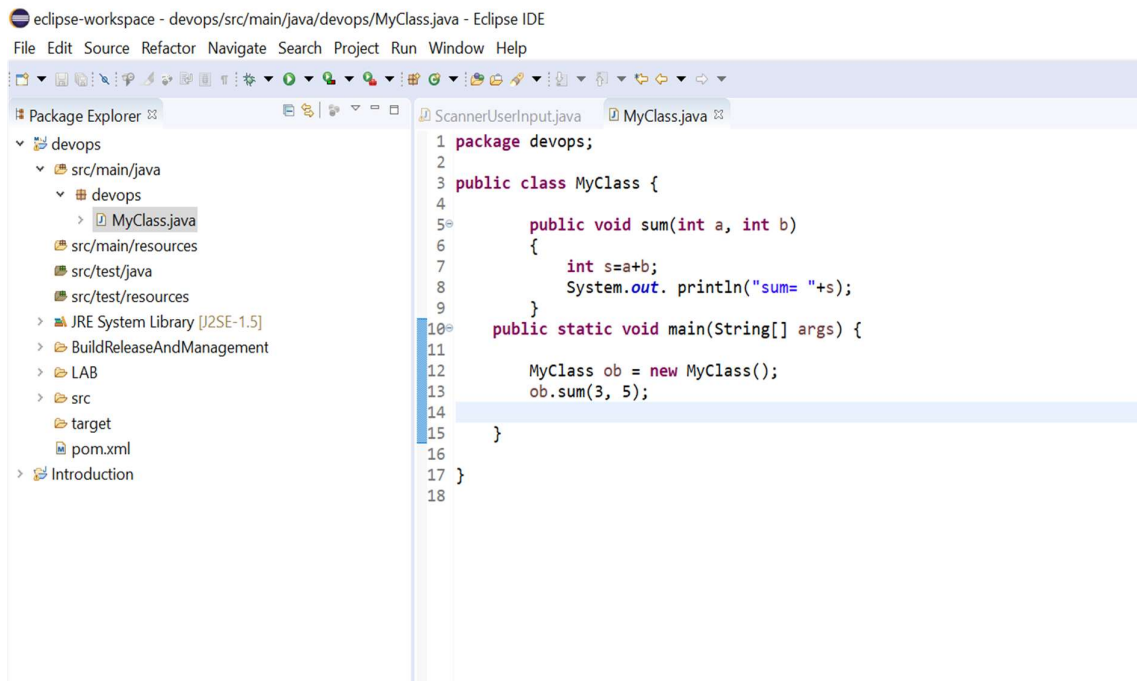
1. To create a Java Project using Maven
2. Run the following Maven goals on this Project

- Clean
- Compile
- Install

### 1. Create java project using Maven

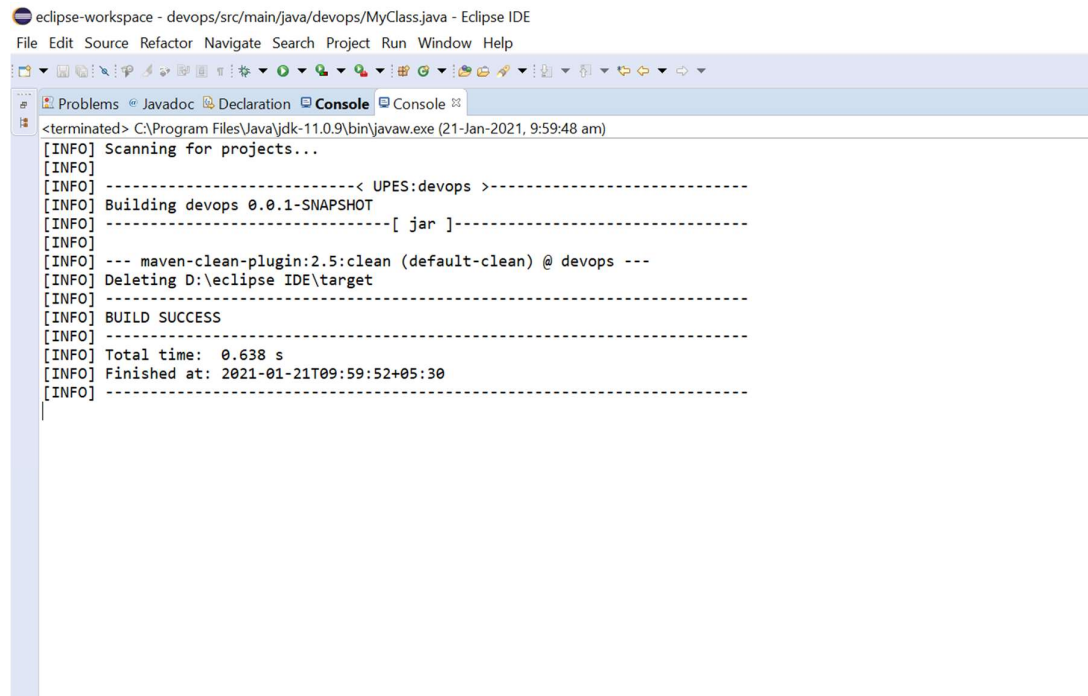
Artifact ID: - devops

Class name: - MyClass.java



## 2. Run the the following Maven goals

- Clean



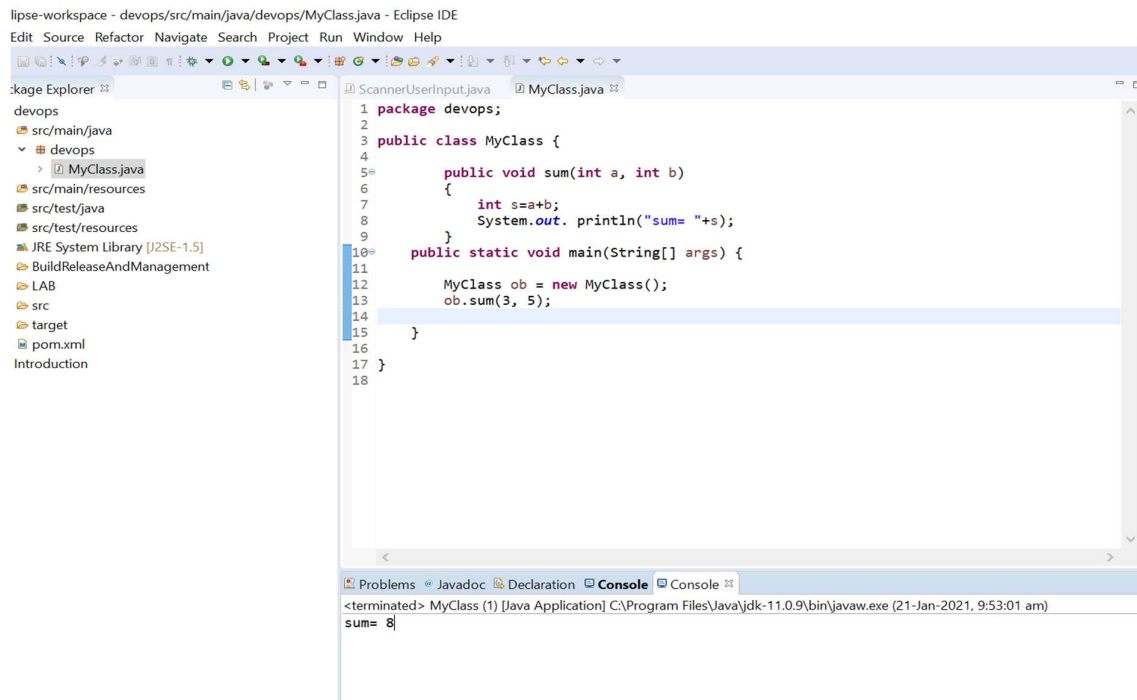
The screenshot shows the Eclipse IDE interface with the console window open. The console output displays the execution of the Maven clean goal. It starts with a terminated command, followed by scanning for projects, building the devops 0.0.1-SNAPSHOT jar, and finally deleting the target directory. The build is successful, with a total time of 0.638 seconds and a finish time of 2021-01-21T09:59:52+05:30.

```
eclipse-workspace - devops/src/main/java/devops/MyClass.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

<terminated> C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 9:59:48 am)

[INFO] Scanning for projects...
[INFO] -----< UPES:devops >-----
[INFO] Building devops 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ devops ---
[INFO] Deleting D:\eclipse IDE\target
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.638 s
[INFO] Finished at: 2021-01-21T09:59:52+05:30
[INFO] -----
```

- Compile



The screenshot shows the Eclipse IDE interface with the Package Explorer on the left and the Editor on the right. The Package Explorer shows the project structure, including the devops package and its sub-packages. The Editor displays the source code of MyClass.java, which is a simple Java class with a sum method and a main method. The console window at the bottom shows the output of the compilation, indicating that the class was successfully compiled.

```
lipse-workspace - devops/src/main/java/devops/MyClass.java - Eclipse IDE
Edit Source Refactor Navigate Search Project Run Window Help

package devops;

public class MyClass {

    public void sum(int a, int b)
    {
        int s=a+b;
        System.out. println("sum= "+s);
    }

    public static void main(String[] args) {
        MyClass ob = new MyClass();
        ob.sum(3, 5);
    }
}

<terminated> MyClass (1) [Java Application] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 9:53:01 am)
sum= 8
```

## • Install

```
eclipse-workspace - devops/src/main/java/devops/MyClass.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

<terminated> eclipse IDE (3) [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 10:01:33 am)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.8/plexus-utils-3.0.8.jar (232 kB at 386 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/reporting/maven-reporting-api/2.0.9/maven-reporting-api-2.0.9.jar (10 kB at 18 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.0.9/maven-toolchain-2.0.9.jar (38 kB at 67 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugin-tools/maven-plugin-annotations/3.1/maven-plugin-annotations-3.1.jar (14 kB at 21 kB/s)
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ devops ---
[INFO] Building jar: D:\eclipse IDE\target\devops-0.0.1-SNAPSHOT.jar
[INFO] --- maven-install-plugin:2.4:install (default-install) @ devops ---
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.pom (2.5 kB at 4.6 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/3.1/plexus-3.1.pom (19 kB at 34 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.pom (1.1 kB at 1.9 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-components/1.1.7/plexus-components-1.1.7.pom (5.0 kB at 8.9 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/1.0.8/plexus-1.0.8.pom (7.2 kB at 13 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-container-default/1.0-alpha-8/plexus-container-default-1.0-alpha-8.pom (7.3 kB at 13 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (230 kB at 381 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.jar (12 kB at 21 kB/s)
[INFO] Installing D:\eclipse IDE\target\devops-0.0.1-SNAPSHOT.jar to C:\Users\Pravahini sharma\.m2\repository\UPES\devops\0.0.1-SNAPSHOT\devops-0.0.1-SNAPSHOT.jar
[INFO] Installing D:\eclipse IDE\pom.xml to C:\Users\Pravahini sharma\.m2\repository\UPES\devops\0.0.1-SNAPSHOT\devops-0.0.1-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO] Total time: 25.610 s
[INFO] Finished at: 2021-01-21T10:02:05:30
[INFO]
```

New Java Project: - MyJavaProjectBRM

Class Name: - MyClass1.java

```
eclipse-workspace - MyJavaProjectBRM/src/MyJavaProjectBRM/MyClass1.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
devops
  src/main/java
    devops
      MyClass.java
  src/main/resources
  src/test/java
  src/test/resources
  JRE System Library [JavaSE-1.6]
  BuildReleaseAndManagement
  LAB
  src
  target
  pom.xml
  Introduction
  MyJavaProjectBRM
    JRE System Library [JavaSE-1.6]
    src
      (default package)
        module-info.java
        MyJavaProjectBRM
  Referenced Libraries
    devops-0.0.1-SNAPSHOT.jar - D:\eclipse IDE\tar

module-info.java
MyClass1.java
1 package MyJavaProjectBRM;
2
3 import devops.MyClass;
4
5 public class MyClass1 {
6
7     public static void main(String[] args) {
8         int x=10;
9         int y=20;
10
11         MyClass ob = new MyClass();
12         ob.sum(x, y);
13     }
14 }
15
16
17

Problems Javadoc Declaration Console Coverage
<terminated> MyClass1 (1) [Java Application] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (21-Jan-2021, 3:06:26 pm)
sum= 30
```

