

# **BRM LAB FILE**

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**CLASS→DEVOPS BATCH2(2019-23)**

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# Experiment-1

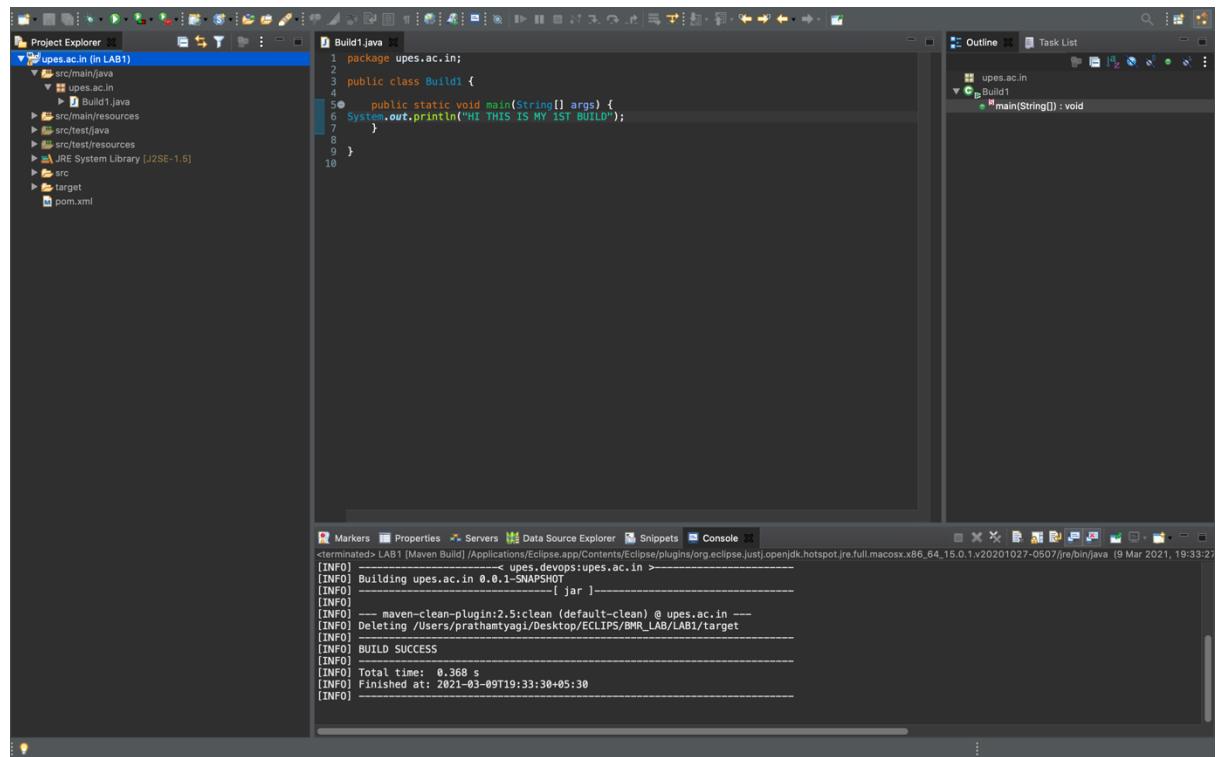
Aim→

- 1.create a java project using maven.
- 2.Run the following maven goals on this project.

- Clean
- Compile
- Install

Screenshot→

## 1. Clean→



```
1 package upes.ac.in;
2
3 public class Build1 {
4
5     public static void main(String[] args) {
6         System.out.println("THE THIS IS MY 1ST BUILD");
7     }
8
9 }
```

```
<terminated> LAB1 [Maven Build] /Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.just.openjdk.hotspot.jre.full.macosx.x86_64_15.0.1.v20201027-0507/jre/bin/java [9 Mar 2021, 19:33:27]
[INFO] -----> upes.devs:upes.ac.in <-----
[INFO] Building upes.ac.in 0.0.1-SNAPSHOT
[INFO] -----
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ upes.ac.in ---
[INFO] Deleting /Users/prathantyagi/Desktop/ECLIPS/BMR_LAB/LAB1/target
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.368 s
[INFO] Finished at: 2021-03-09T19:33:30+05:30
[INFO] -----
```

## 2. Compile →

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer View:** Shows the project structure for "upes.ac.in (LAB1)". It includes source code in Java (src/main/java/upes.ac.in/Build1.java), resources (src/main/resources), test resources (src/test/resources), and an IRE System Library (J2SE-1.6). A pom.xml file is also present.
- Java Editor View:** Displays the content of Build1.java, which contains a main method that prints "THIS IS MY 1ST BUILD!" to the console.
- Console View:** Shows the output of a Maven build (Lab1:10) from the terminal. The log indicates the build process, including the creation of a snapshot JAR and the execution of various Maven plugins like maven-resources-plugin, maven-compiler-plugin, and maven-jar-plugin. It also shows warnings about platform encoding and build being dependent on the platform.

### 3.install→

Project Explorer    Build1.java    Outline

src/main/java  
  upes.ac.in  
    Build1.java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library (J2SE-1.5)  
src  
target  
pom.xml

Build1.java

```
1 package upes.ac.in;
2
3 public class Build1 {
4
5     public static void main(String[] args) {
6         System.out.println("HI THIS IS MY 1ST BUILD");
7     }
8
9 }
10
```

Markers    Properties    Servers    Data Source Explorer    Snippets    Console

```
<terminated> [Build 1] (Maven Build) [/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.just/jdk.hotspot.jre.full.macosx.x86_64_15.0.1.v20210227-0507/jre/bin/java] (9 Mar 2021, 20:32:16+05:30)
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.m2e.maven.runtime.slf4j_jdk15!/org/codehaus/mojo/slf4j-binding.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/configuration/org.eclipse.osgi/5.0.0/cp/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory]
[INFO] Scanning for projects...
[INFO]
[INFO] <--> upes.devs:upes.ac.in 0.0.1-SNAPSHOT
[INFO] Building upes.ac.in 0.0.1-SNAPSHOT
[INFO] --- [jar] ---
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ upes.ac.in ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ upes.ac.in ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ upes.ac.in ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ upes.ac.in ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ upes.ac.in ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ upes.ac.in ---
[INFO] Building jar: /Users/prathamya@Desktop/ECLIPS/BMR_LAB/LAB1/target/upes.ac.in-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ upes.ac.in ---
[INFO] Installing /Users/prathamya@Desktop/ECLIPS/BMR_LAB/LAB1/target/upes.ac.in-0.0.1-SNAPSHOT.jar to /Users/prathamya@.m2/repository/upes/dev
[INFO] Installing /Users/prathamya@Desktop/ECLIPS/BMR_LAB/LAB1/pom.xml to /Users/prathamya@.m2/repository/upes/devops/upes.ac.in-0.0.1-SNAPSHOT
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.682 s
[INFO] Finished at: 2021-03-09T20:32:16+05:30
[INFO]
```

#### 4.CLI→

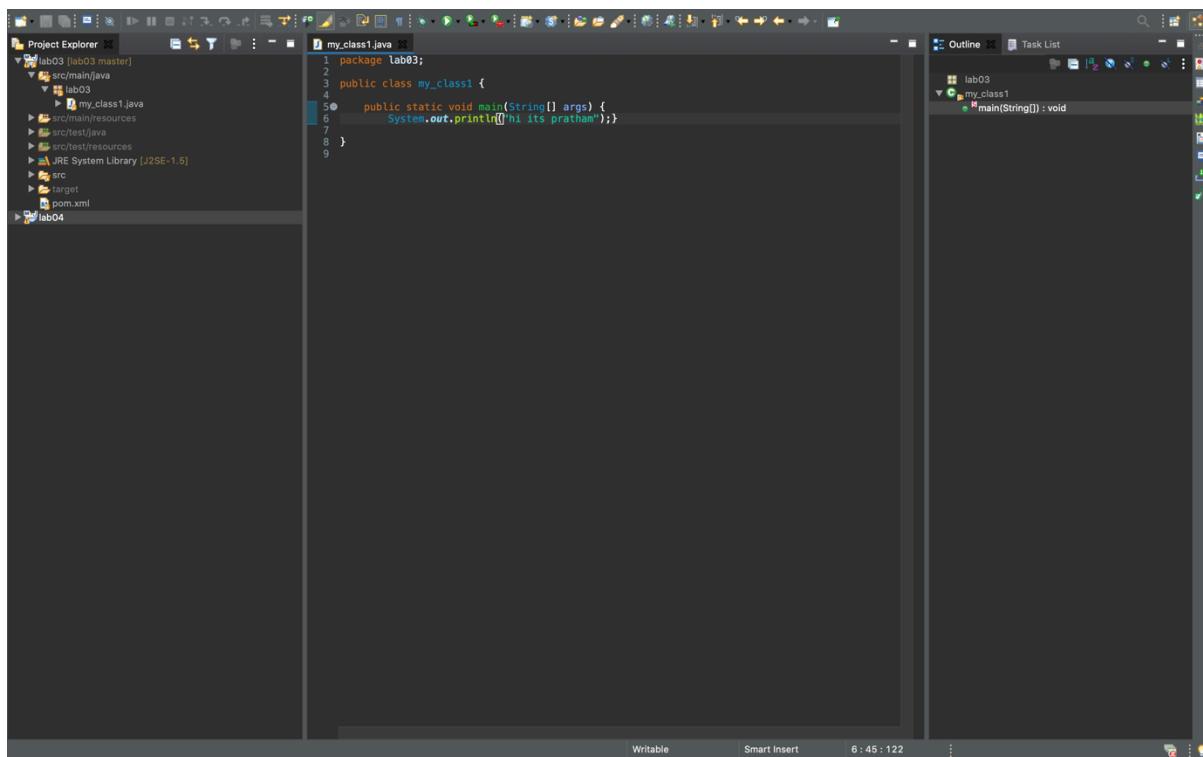
```
[prathamtyagi@Prathams-Air LAB2 % mvn -f /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2 clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops.ac:project2.ac >-----
[INFO] Building project2.ac 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ project2.ac ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 0.266 s
[INFO] Finished at: 2021-03-14T13:40:44+05:30
[INFO]
[prathamtyagi@Prathams-Air LAB2 % mvn -f /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2 compile
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops.ac:project2.ac >-----
[INFO] Building project2.ac 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ project2.ac ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ project2.ac ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 1 source file to /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2/target/classes
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 1.469 s
[INFO] Finished at: 2021-03-14T13:41:08+05:30
[INFO]
[prathamtyagi@Prathams-Air LAB2 % mvn -f /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2 install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops.ac:project2.ac >-----
[INFO] Building project2.ac 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ project2.ac ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ project2.ac ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ project2.ac ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ project2.ac ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ project2.ac ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ project2.ac ---
[INFO] Building jar: /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2/target/project2.ac-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ project2.ac ---
[INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2/target/project2.ac-0.0.1-SNAPSHOT.jar to /Users/prathamtyagi/.m2/repository/devops/ac/project2.ac/0.0.1-SNAPSHOT/project2.ac-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/LAB2/pom.xml to /Users/prathamtyagi/.m2/repository/devops/ac/project2.ac/0.0.1-SNAPSHOT/project2.ac-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 1.319 s
[INFO] Finished at: 2021-03-14T13:41:23+05:30
[INFO]
[prathamtyagi@Prathams-Air LAB2 %
```

# EXPERIMENT 2

## Aim: Unit Testing using Junit tool

JUnit tutorial provides basic and advanced concepts of **unit testing in java** with examples. Our junit tutorial is designed for beginners and professionals. It is an *open-source testing framework* for java programmers. The java programmer can create test cases and test his/her own code. It is one of the unit testing framework. Current version is junit 4. To perform unit testing, we need to create test cases. The **unit test case** is a code which ensures that the program logic works as expected. The **org.junit** package contains many interfaces and classes for junit testing such as Assert, Test, Before, After etc.

### SCREENSHOTS→



**About**  
No description, website, or topics provided.

**Releases**  
No releases published  
Create a new release

**Packages**  
No packages published  
Publish your first package

S	W	Name	Last Success	Last Failure	Last Duration
		brm_lab03	1 min 18 sec - #2	3 min 22 sec - #1	15 sec

Icon: S M L

Legend: Atom feed for all Atom feed for failures Atom feed for just latest builds

**Console Output**

```

Started by user pratham tyagi
Running as SYSTEM
Building in workspace /Users/prathamtyagi/.jenkins/workspace/brm_lab03
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/pratham0tyagi/jenkins_bmr_lab.git
> git init /Users/prathamtyagi/.jenkins/workspace/brm_lab03 # timeout=10
Fetching upstream changes from https://github.com/pratham0tyagi/jenkins_bmr_lab.git
> git --version # timeout=10
> git -v git version 2.24.3 (Apple Git-128)
> git fetch --tags --force --progress -- https://github.com/pratham0tyagi/jenkins_bmr_lab.git +refs/heads/*:refs/remotes/origin/*
timeout=10
> git config remote.origin.url https://github.com/pratham0tyagi/jenkins_bmr_lab.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^(commit) # timeout=10
Checking out Revision 8ccf029ee807f492845928d681a72172f8de6f2e (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 8ccf029ee807f492845928d681a72172f8de6f2e # timeout=10
Commit message: "this is my lab03"
First time build. Skipping changelog.
Parsing POMs
Discovered a new module upes.devops:lab03 lab03
Modules changed, recalculating dependency graph
Established TCP socket on 49878
[brm_lab03] $ java -cp /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-agent-1.13.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/boot/plexus-classworlds-2.6.0.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/conf/logging jenkins.maven3.agent.Maven35Main /Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven /Users/prathamtyagi/.jenkins/war/WEB-INF/lib/remoting-4.6.jar /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-interceptor-1.13.jar /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-interceptor-commons-1.13.jar 49878
<==[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f /Users/prathamtyagi/.jenkins/workspace/brm_lab03/pom.xml compile
[INFO] Scanning for projects...
+-----+

```

**Console Output**

```

> git fetch --tags --force --progress -- https://github.com/pratham0tyagi/jenkins_bmr_lab.git +refs/heads/*:refs/remotes/origin/*
timeout=10
> git rev-parse refs/remotes/origin/master^(commit) # timeout=10
Checking out Revision 8ccf029ee807f492845928d681a72172f8de6f2e (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 8ccf029ee807f492845928d681a72172f8de6f2e # timeout=10
Commit message: "this is my lab03"
> git rev-list --no-walk 8ccf029ee807f492845928d681a72172f8de6f2e # timeout=10
Parsing POMs
Established TCP socket on 49916
[brm_lab03] $ java -cp /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-agent-1.13.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/boot/plexus-classworlds-2.6.0.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/conf/logging jenkins.maven3.agent.Maven35Main /Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven /Users/prathamtyagi/.jenkins/war/WEB-INF/lib/remoting-4.6.jar /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-interceptor-1.13.jar /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-interceptor-commons-1.13.jar 49916
<==[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f /Users/prathamtyagi/.jenkins/workspace/brm_lab03/pom.xml clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] <-----> upes.devops:lab03 <----->
[INFO] Building lab03 0.0.1-SNAPSHOT
[INFO] -----
[INFO] [ jar ]
[INFO] -----
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab03 ---
[INFO] Deleting /Users/prathamtyagi/.jenkins/workspace/brm_lab03/target
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.453 s
[INFO] Finished at: 2021-03-21T12:26:21+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/prathamtyagi/.jenkins/workspace/brm_lab03/pom.xml to upes.devops:lab03/0.0.1-SNAPSHOT/lab03-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
+-----+

```

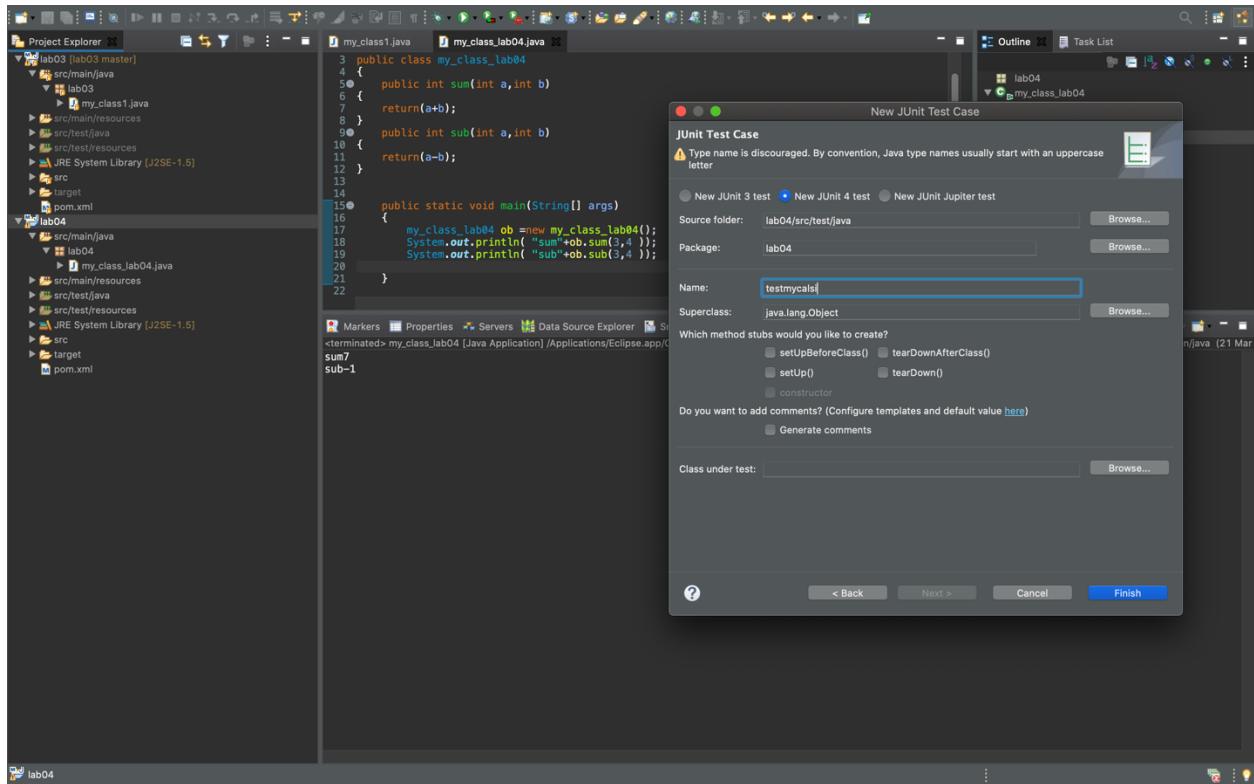
REST API Jenkins 2.277.1

# EXPERIMENT 3

## Aim: Maven Build and usage in other Java Project

1. Create a Build of java project using maven.
2. Use that build in some other Java Project.

## SCREENSHOTS→



Project Explorer

```

my.class1.java my.class_lab04.java testmycalsi.java
1 package lab04;
2
3 import static org.junit.Assert.*;
4
5 public class testmycalsi {
6
7     @Test
8     public void test() {
9         assertEquals("Not yet implemented", my_class_lab04 ob =new my_class_lab04();
10        assertEquals(6,ob.sum(10, 4));
11        assertEquals(14,ob.sum(10, 4));
12    }
13
14 }
15
16
17
18

```

Outline

```

lab04
└── testmycalsi
    └── test(): void

```

Markers Properties Servers Data Source Explorer Snippets Console Git Staging JUnit

<terminated> lab04 [ Maven Build ] [Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.just.openjdk.hotspot.jre.full.macosx.x86\_64\_16.0.1.v20201027-0507/jre/bin/java (21 Mar 2021, 13:17) SLF4J: Found binding in [/file/Applications/Eclipse.app/Contents/Eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation. SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory] SLF4J: Class path contains multiple SLF4J bindings. SLF4J: Found binding in [/file/Applications/Eclipse.app/Contents/Eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [/file/Applications/Eclipse.app/Contents/Eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation. SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory]

[INFO] Scanning for projects...

[INFO] [INFO] --- devops.upes:lab04 0.0.1-SNAPSHOT >

[INFO] Building lab04 0.0.1-SNAPSHOT

[INFO] [INFO] --- [ jar ]

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab04 ---

[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] Copying 0 resource

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ lab04 ---

[INFO] Changes detected - recompiling the module!

[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!

[INFO] Compiling 1 source file to /Users/prathamtyagi/Desktop/ECLIPS/MR\_LAB/lab04/target/classes

[INFO] [INFO] [ERROR] COMPILATION ERROR :

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

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

[INFO] [INFO] 2 errors

[INFO] [INFO] [INFO] BUILD FAILURE

[INFO] [INFO] Total time: 1.216 s

Project Explorer

```

my.class1.java my.class_lab04.java testmycalsi.java lab04/pom.xml
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2   modelVersion="4.0.0" xsi:modelVersion="4.0.0"
3   >
4     <groupId>devops.upes</groupId>
5     <artifactId>lab04</artifactId>
6     <version>0.0.1-SNAPSHOT</version>
7     <dependencies>
8       <dependency>
9         <groupId>junit</groupId>
10        <artifactId>junit</artifactId>
11        <version>4.13</version>
12        <scope>test</scope>
13      </dependency>
14    </dependencies>
15  </project>

```

Outline

```

project xmlns="http://maven.apache.org/POM/4.0.0
└── <modelVersion>4.0.0</modelVersion>
    <groupId>devops.upes</groupId>
    <artifactId>lab04</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <dependencies>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>4.13</version>
            <scope>test</scope>
        </dependency>
    </dependencies>

```

Markers Properties Servers Data Source Explorer Snippets Console Git Staging JUnit

<terminated> lab04 [ Maven Build ] [Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.just.openjdk.hotspot.jre.full.macosx.x86\_64\_16.0.1.v20201027-0507/jre/bin/java (21 Mar 2021, 13:17) SLF4J: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory]

[INFO] Scanning for projects...

[INFO] [INFO] --- devops.upes:lab04 0.0.1-SNAPSHOT >

[INFO] Building lab04 0.0.1-SNAPSHOT

[INFO] [INFO] --- [ jar ]

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab04 ---

[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] Copying 0 resource

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ lab04 ---

[INFO] Nothing to compile - all classes are up to date

[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ lab04 ---

[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] Copying 0 resource

[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ lab04 ---

[INFO] Nothing to compile - all classes are up to date

[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ lab04 ---

[INFO] [INFO] BUILD SUCCESS

[INFO] Total time: 1.212 s

[INFO] Finished at: 2021-03-21T13:35:23+05:30

[INFO] ---

The screenshot shows an IDE interface with the following components:

- Project Explorer:** Shows two projects: "lab03" and "lab04".
- Code Editor:** Displays three files:
  - "my.class1.java"
  - "my.class\_lab04.java"
  - "testmycalci.java"with the content of "testmycalci.java" shown below.
- Outline:** Shows the class structure for "lab04".
- Task List:** Shows a single task named "test()".
- Markers:** Shows the status of the build: "Finished after 0.042 seconds".
- Console:** Shows the output of the JUnit run: "Runs: 1/1", "Errors: 0", "Failures: 0".
- Failure Trace:** Shows the failure trace for the test method.

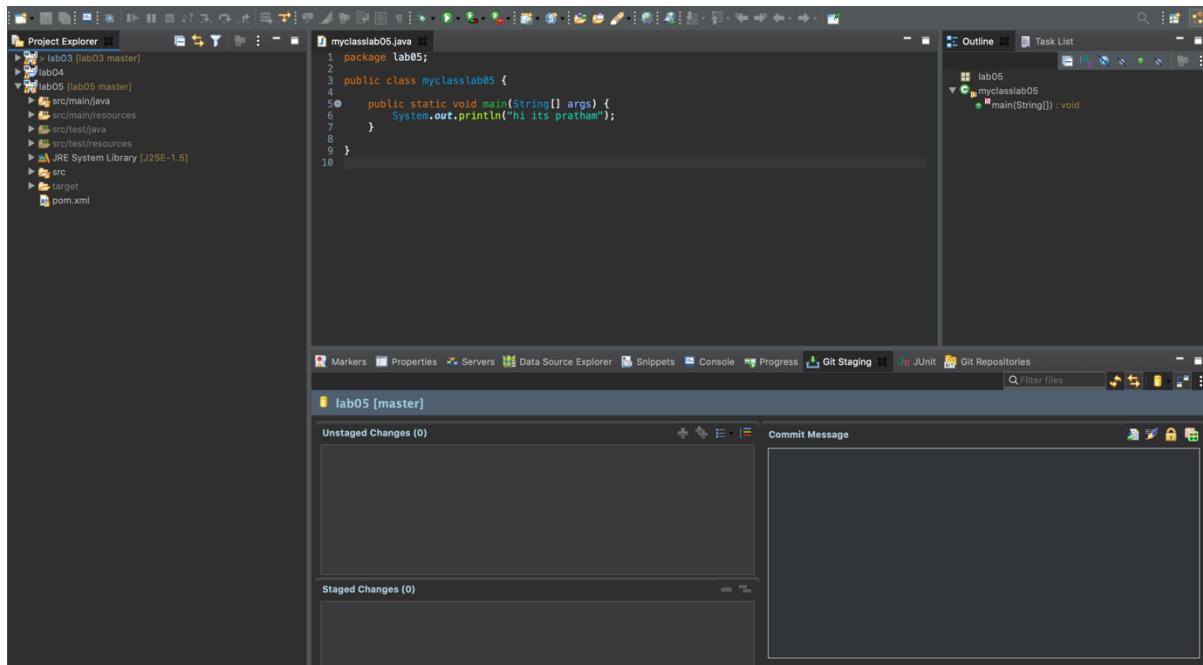
```
1 package lab04;
2
3 import static org.junit.Assert.*;
4
5 public class testmycalci {
6
7     @Test
8     public void test() {
9         //fail("Not yet implemented");
10        my_class_lab04 ob =new my_class_lab04();
11        assertEquals(6,ob.sub(10, 4));
12        assertEquals(14,ob.sum(10, 4));
13    }
14
15 }
```

# EXPERIMENT4

## Aim: Install and Manage Maven Plugin using Eclipse

Install Site Plugin and use “mvn site” command and goal for generating documents for Maven Project using Eclipse.

### SCREENSHOTS→



The screenshot shows the Jenkins dashboard for the project "BRM\_LAB\_05\_exp4". The left sidebar contains navigation links: Back to Dashboard, Status, Changes, Workspace, Build Now, Configure, Delete Maven project, Modules, and Rename. The main content area displays the project name "Maven project BRM\_LAB\_05\_exp4" and the message "this is lab5 exp4". It also shows links for "edit description" and "Disable Project". Below this, there are sections for "Workspace" and "Recent Changes". A "Permalinks" section is present at the bottom of the main content area.

Blackboard Learn | pratham01tyagi/BRM\_LAB\_05-+ | BRM\_LAB\_05\_exp4 #1 Console +

localhost:8080/job/BRM\_LAB\_05\_exp4/1/console

Apps Gmail YouTube Maps blackboard student\_portal Jenkins

Dashboard > BRM\_LAB\_05\_exp4 > #1

See Fingerprints

```

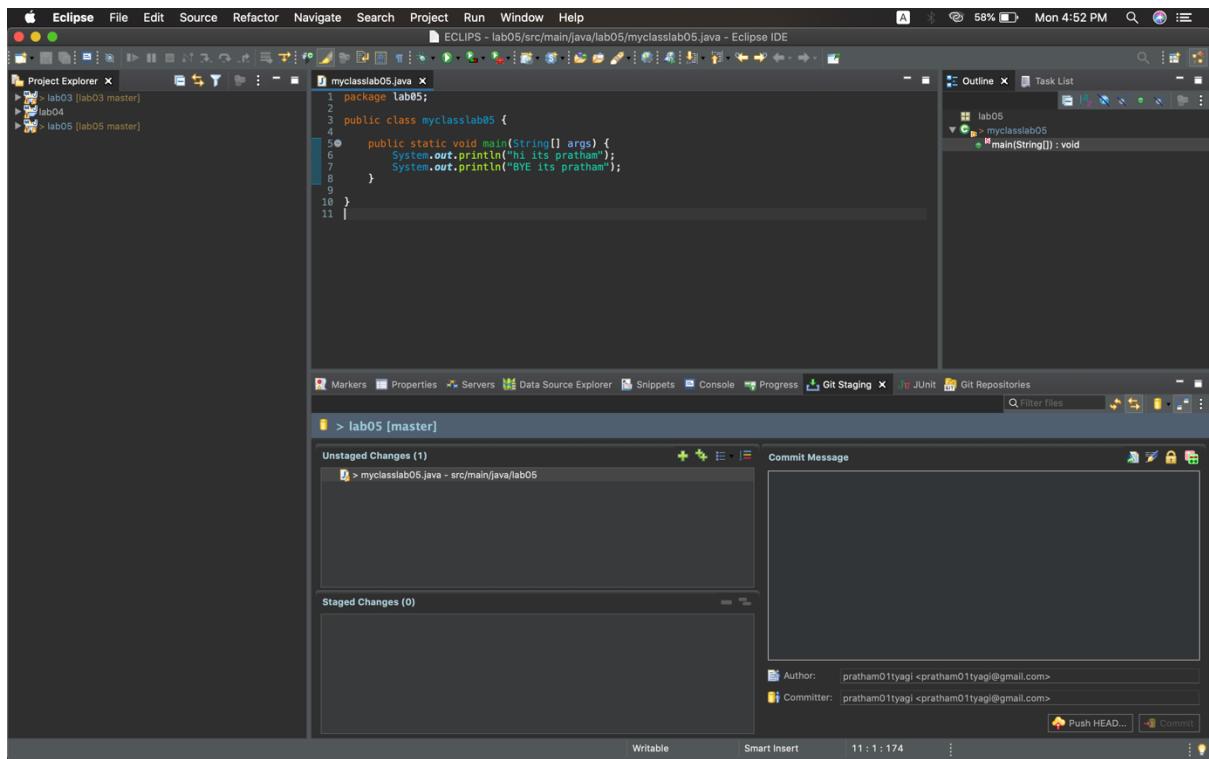
git checkout -f b8818dbde317e32d1b3ead87eeclb17leeee0ee # timeout=10
Commit message: "My 1st commit of lab 5 exp4"
First time build. Skipping changelog.
Parsing POMs
Discovered a new module devops.upes:lab05 lab05
Modules changed, recalculating dependency graph
Established TCP socket on 49585
[BRM_LAB_05_exp4] $ /Library/Java/JavaVirtualMachines/jdk-15.0.1.jdk/Contents/Home/bin/java -cp
/Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven35-agent-
1.3.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/boot/plexus-classworlds-
2.6.0.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/conf/logging
jenkins.maven3.agent.Maven3Main:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven
/Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven3-interceptor-1.13.jar:/Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven3-interceptor-commons-1.13.jar 49585
<===[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f /Users/prathamtyagi/.jenkins/workspace/BRM_LAB_05_exp4/pom.xml clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops.upes:lab05 >-----
[INFO] Building lab05 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab05 ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.963 s
[INFO] Finished at: 2021-03-22T16:50:26+05:30
[INFO]
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/prathamtyagi/.jenkins/workspace/BRM_LAB_05_exp4/pom.xml to devops.upes:lab05/0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS

```

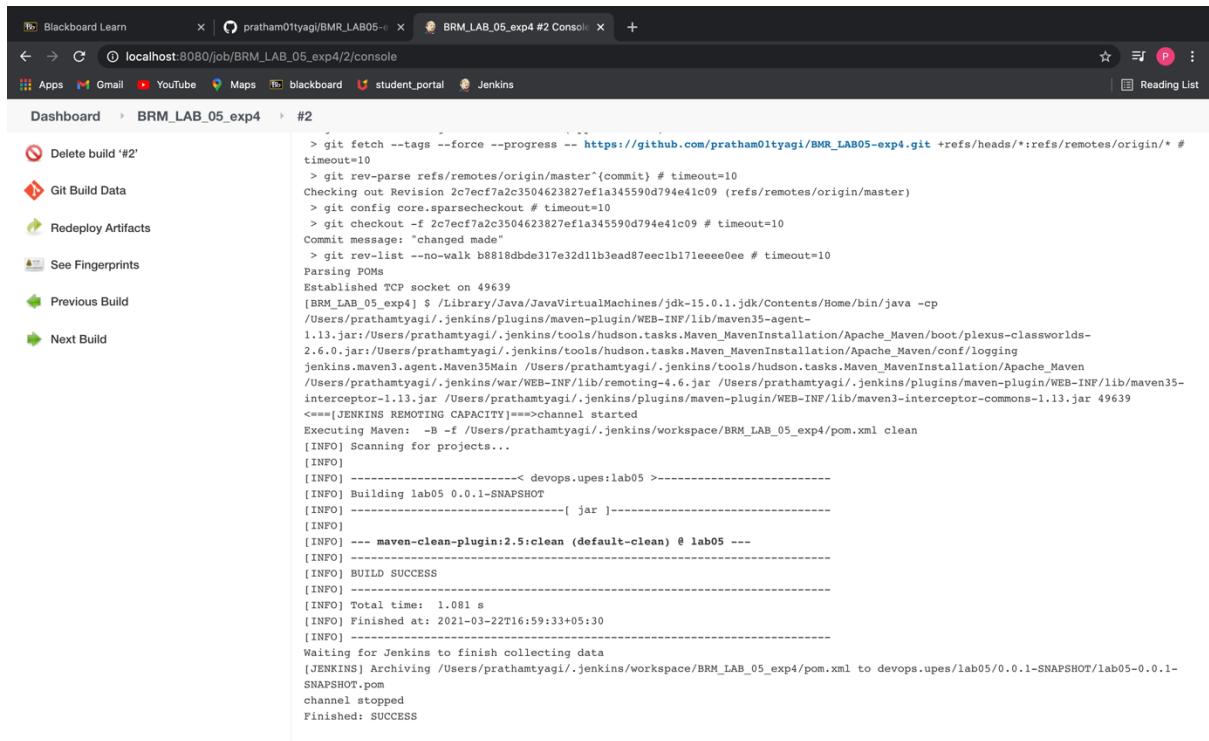
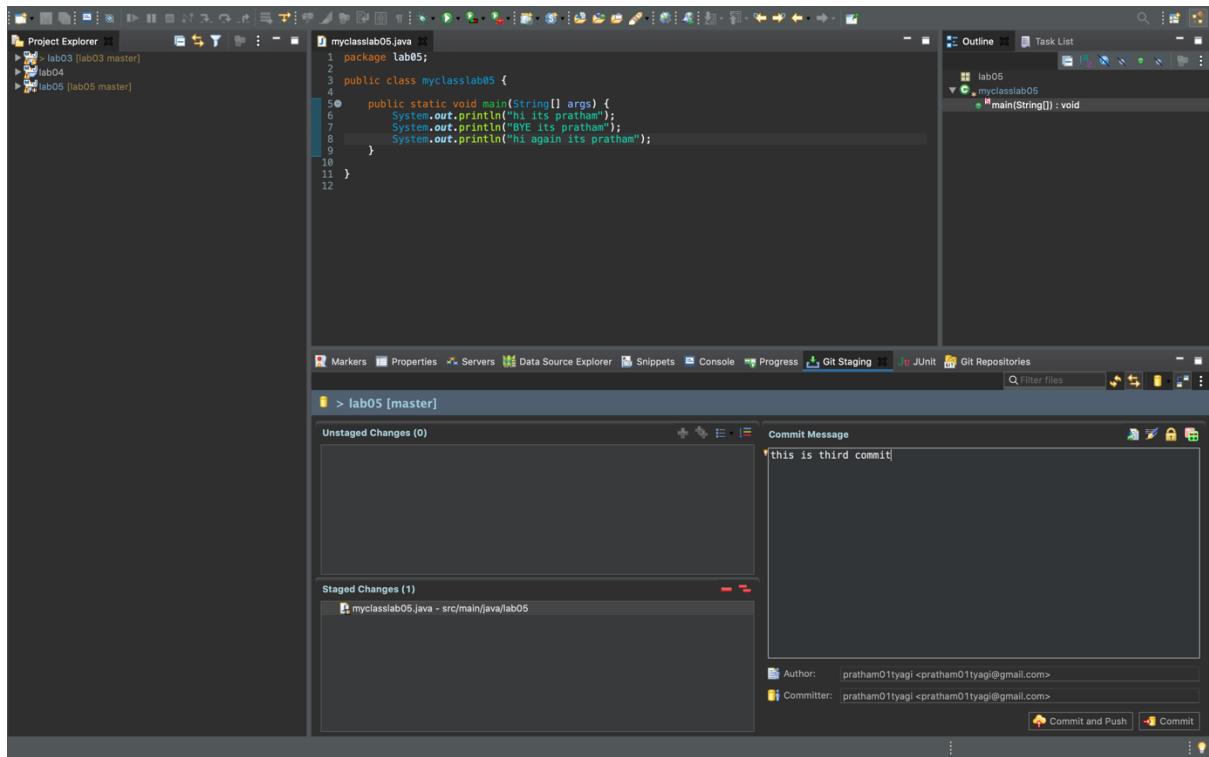
REST API Jenkins 2.277.1

```
Last login: Mon Mar 22 16:07:13 on ttys000
prathamtyagi@Prathams-MacBook-Air ~ % cd /usr/local/Cellar/jenkins-lts/2.277.1/libexec
prathamtyagi@Prathams-MacBook-Air libexec % java -jar jenkins.war --enable-future-java
Mar 22, 2021 4:36:33 PM Main verifyJavaVersion
WARNING: Running with Java class version 59 which is not in the list of supported versions: [52, 55]. Argument --enable-future-java is set, so will continue. See https://jenkins.io/redirect/java-support/
Running from /usr/local/Cellar/jenkins-lts/2.277.1/libexec/jenkins.war
WebAppMain$ContextHandler@1000000000 [id=1] INFO org.eclipse.jetty.util.log.LogInitialized: Logging initialized @513ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-03-22 11:06:35.524+0000 [id=1] INFO org.winstone.Logger$logInternal: Beginning extraction from war file
2021-03-22 11:06:35.524+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler$setContextPath: Empty contextPath
2021-03-22 11:06:35.533+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-0.9.22.v20210224; built: 2021-02-24T20:25:07.675Z; git: 288f3cc74549e8a913bf363250b0744f2695b8e6; jvm 15.0.1+9-18
2021-03-22 11:06:35.779+0000 [id=1] INFO o.e.j.s.StandardDescriptorProcessor#visitServlet: No JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2021-03-22 11:06:35.824+0000 [id=1] INFO org.eclipse.jetty.server.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2021-03-22 11:06:35.824+0000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2021-03-22 11:06:35.833+0000 [id=1] INFO o.e.j.s.server.session.Keepalive$startScavenging: node0 Scavenging every 600000ms
2021-03-22 11:06:36.521+0000 [id=1] INFO hudson.WebAppMain$ContextInitialization: Jenkins home directory: /Users/prathamtyagi/.jenkins found at: $user.home/.jenkins
2021-03-22 11:06:37.387+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.@55795846($ Jenkins v2.277.1, file:///Users/prathamtyagi/.jenkins/available)
2021-03-22 11:06:37.513+0000 [id=1] INFO o.e.j.s.server.AbstractConnector#doStart: Started ServerConnector@587c298d(HTTP/1.1, (http://1.1))(0.0.0.0:8000)
2021-03-22 11:06:37.513+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started @2871ms
2021-03-22 11:06:37.513+0000 [id=27] INFO org.winstone.Logger$logInternal: Winstone Servlet Engine running; controlPort=disabled
2021-03-22 11:06:37.869+0000 [id=32] INFO jenkins.InitReactorRunner$onAttained: Started initialization
2021-03-22 11:06:38.262+0000 [id=38] INFO jenkins.InitReactorRunner$onAttained: Listed all plugins
2021-03-22 11:06:38.262+0000 [id=38] INFO jenkins.InitReactorRunner$onAttained: Started configuration
2021-03-22 11:06:38.262+0000 [id=38] INFO jenkins.InitReactorRunner$onTaskFailed: Failed Loading plugin Pipeline v.2.6 (workflow-aggregator)
java.io.IOException: Failed to load: Pipeline (2.6)
- Plugin is missing: pipeline-milestone-step (1.3)
    at hudson.PluginWrapper.resolvePluginDependencies(PluginWrapper.java:960)
    at hudson.PluginManager$2$$Lambda$1.run(PluginManager.java:58)
    at org.jvnet.hudson.reactor.TaskGraphBuilder$TaskImpl$run(TaskGraphBuilder.java:169)
    at org.jvnet.hudson.reactor.Reactor$2$$Lambda$1.run(Reactor.java:296)
    at jenkins.model.Jenkins$5.runTask(Jenkins.java:131)
    at org.jvnet.hudson.reactor.Reactor$2$$Lambda$1.run(Reactor.java:14)
    at org.jvnet.hudson.reactor.Reactor$Node$$Lambda$1.run(Reactor.java:117)
    at jenkins.security.ImpersonatingExecutorService$1.run(ImpersonatingExecutorService.java:68)
    at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1330)
    at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:630)
    at java.base/java.lang.Thread.run(Thread.java:823)
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$2 (file:/Users/prathamtyagi/.jenkins/war/WEB-INF/lib/guice-4.0.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$2
WARNING: All illegal access operations will be denied in a future release
2021-03-22 11:06:45.064+0000 [id=33] INFO jenkins.InitReactorRunner$onAttained: Prepared all plugins
2021-03-22 11:06:45.075+0000 [id=35] INFO jenkins.InitReactorRunner$onAttained: Started all plugins
2021-03-22 11:06:46.474+0000 [id=38] INFO jenkins.InitReactorRunner$onAttained: Augmented all extensions
2021-03-22 11:06:46.613+0000 [id=36] INFO jenkins.InitReactorRunner$onAttained: System config loaded
2021-03-22 11:06:46.613+0000 [id=36] INFO jenkins.InitReactorRunner$onAttained: System config adapted
2021-03-22 11:06:46.653+0000 [id=37] INFO jenkins.InitReactorRunner$onAttained: Prepared all jobs
2021-03-22 11:06:46.756+0000 [id=35] INFO jenkins.InitReactorRunner$onAttained: Configuration for all jobs updated
2021-03-22 11:06:46.785+0000 [id=51] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Started Download metadata
2021-03-22 11:06:46.792+0000 [id=51] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Finished Download metadata. 5 ms
2021-03-22 11:06:46.928+0000 [id=33] INFO jenkins.InitReactorRunner$onAttained: Completed initialization
2021-03-22 11:06:46.965+0000 [id=25] INFO hudson.WebAppMain$3$$run: Jenkins is fully up and running

```



The screenshot shows the Jenkins configuration interface for a job named "BRM\_LAB\_05\_exp4". The "Build Triggers" tab is selected. Under "Post-build Actions", there is a section for "Poll SCM" which is checked. A note below says: "⚠ Do you really mean \"every minute\" when you say \"\* \* \* \* \*\"? Perhaps you meant \"H \* \* \* \*\" to poll once per hour". Below this, there is a cron expression field with the following help text: "This field follows the syntax of cron (with minor differences). Specifically, each line consists of 5 fields separated by TAB or whitespace: MINUTE HOUR DOM MONTH DOW. MINUTE Minutes within the hour (0-59). HOUR The hour of the day (0-23). DOM The day of the month (1-31). MONTH The month (1-12). DOW The day of the week (0-7) where 0 and 7 are Sunday." At the bottom, there are "Save" and "Apply" buttons.



Blackboard Learn | BMR\_LAB05-exp4/myclasslab | BRM\_LAB\_05\_exp4 #4 Console | +

localhost:8080/job/BRM\_LAB\_05\_exp4/4/console

Apps Gmail YouTube Maps blackboard student\_portal Jenkins

Reading List

Dashboard > BRM\_LAB\_05\_exp4 > #4

Polling Log

Git Build Data

Redeploy Artifacts

See Fingerprints

Previous Build

```
> git config core.sparseCheckout # timeout=10
> git checkout -f 49c6cbbc02d691dbb25fee9ele529e5154ca5690 # timeout=10
Commit message: "this is third commit"
> git rev-list --no-walk 2c7ecf7a2c3504623827ef1a345590d794e41c09 # timeout=10
Parsing POMs
Established TCP socket on 49668
[BRM_LAB_05_exp4] $ /Library/Java/JavaVirtualMachines/jdk-15.0.1.jdk/Contents/Home/bin/java -cp
/Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven3-agent-
1.13.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/boot/plexus-classworlds-
2.6.0.jar:/Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven/conf/logging
jenkins.maven3.agent.Maven35Main /Users/prathamtyagi/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/Apache_Maven
/Users/prathamtyagi/.jenkins/war/WEB-INF/lib/remoting-4.6.jar /Users/prathamtyagi/.jenkins/plugins/maven-plugin/WEB-INF/lib/maven3-
interceptor-1.13.jar /Users/prathamtyagi/.jenkins/plugins/maven-remoting/WEB-INF/lib/maven3-interceptor-commons-1.13.jar 49668
<===[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f /Users/prathamtyagi/.jenkins/workspace/BRM_LAB_05_exp4/pom.xml clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops.upes:lab05 >-----
[INFO] Building lab05 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab05 ---
[INFO] -----[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.913 s
[INFO] Finished at: 2021-03-22T17:02:14+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/prathamtyagi/.jenkins/workspace/BRM_LAB_05_exp4/pom.xml to devops.upes/lab05/0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

REST API Jenkins 2.277.1

# EXPERIMENT 5

## Aim: Integration using GitHub

Create a complete Maven project and push in GitHub repository for Continuous Integration.

SCREENSHOTS→

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left lists several projects: lab03, lab04, lab05, and lab06\_exp05. The lab06\_exp05 project is selected. The Editor tab at the top has three tabs: My\_class\_lab06.java, Testcase1.java, and lab06\_exp05/pom.xml. The lab06\_exp05/pom.xml tab is active, displaying the following XML code:

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<modelVersion>4.0.0</modelVersion>
<groupId>com.prathamtyagi</groupId>
<artifactId>lab06_exp05</artifactId>
<version>0.0.1-SNAPSHOT</version>
<dependencies>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.13</version>
<scope>test</scope>
</dependency>
</dependencies>
</project>
```

The Outline view on the right shows the class structure: lab06\_exp05, My\_class\_lab06, f1(), f2(), f3(), and main(String[]). The Editor status bar at the bottom indicates the file is Writable and the time is 22:11:541.

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left lists the same projects as the previous screenshot. The lab06\_exp05 project is selected. The Editor tab at the top has three tabs: My\_class\_lab06.java, Testcase1.java, and lab06\_exp05/pom.xml. The My\_class\_lab06.java tab is active, displaying the following Java code:

```
package lab06_exp05;
public class My_class_lab06 {
    public void f1()
    {
    }
    public void f2()
    {
    }
    public void f3()
    {
    }
    public static void main(String[] args)
    {
        System.out.println("hi its pratham tyagi...");
    }
}
```

The Outline view on the right shows the class structure: lab06\_exp05, My\_class\_lab06, f1(), f2(), f3(), and main(String[]). The Editor status bar at the bottom indicates the file is Writable and the time is 18:48:220.

```
My_class_lab06.java Testcase1.java lab06_exp05/pom.xml
1 package lab06_exp05;
2
3 public class My_class_lab06 {
4     public void f1()
5     {
6
7     }
8     public void f2()
9     {
10
11 }
12     public void f3()
13     {
14
15 }
16     public static void main(String[] args)
17     {
18         System.out.println("hi its pratham tyagi...");
19     }
20 }
21
22
```

```
<terminated> lab06(exp5) [Maven Build] /Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.ope
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.ope
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/configura
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/configura
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type org.slf4j.impl.SimpleLoggerFactory
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.ope
SLF4J: Found binding in [file:/Applications/Eclipse.app/Contents/Eclipse/configura
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type org.slf4j.impl.SimpleLoggerFactory
[INFO] Scanning for projects...
[INFO]
[INFO] <devops.upes:lab06_exp05 >-----
[INFO] Building lab06_exp05 0.0.1-SNAPSHOT
[INFO] [jar] -----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab06_exp05 ---
[INFO] Deleting /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab06(exp5)/target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.437 s
[INFO] Finished at: 2021-03-22T18:02:49+05:30
[INFO]
```

```
My_class_lab06.java lab06_exp05/pom.xml
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>devops.upes</groupId>
4     <artifactId>lab06_exp05</artifactId>
5     <version>0.0.1-SNAPSHOT</version>
6     <dependencies>
7         <dependency>
8             <groupId>junit</groupId>
9             <artifactId>junit</artifactId>
10            <version>4.13</version>
11            <scope>test</scope>
12        </dependency>
13    </dependencies>
14</project>
```

```
<terminated> lab06(exp5) [3] [Maven Build] /Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.ope
SLF4J: Found binding in [file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.ope
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type org.slf4j.impl.SimpleLoggerFactory
[INFO] Scanning for projects...
[INFO]
[INFO] <devops.upes:lab06_exp05 >-----
[INFO] Building lab06_exp05 0.0.1-SNAPSHOT
[INFO] [jar] -----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab06_exp05
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e.
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ lab06_exp05
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ lab06_exp05
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e.
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ lab06_exp05
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. buil
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ lab06_exp05 ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ lab06_exp05 ---
[INFO] Building jar: /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab06(exp5)/target/la
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ lab06_exp05 ---
[INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab06(exp5)/target/la
[INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab06(exp5)/pom.xml
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.710 s
[INFO] Finished at: 2021-03-22T18:08:14+05:30
[INFO]
```

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer View:** Displays the project structure. The root project is "lab05" (lab05 master). It contains subfolders "lab04", "lab05" (lab05 master), and "lab06\_exp05" (in lab06(exp5)). Inside "lab06\_exp05", there are "src/main/java" containing "My.class.lab06.java", "src/main/resources", "src/test/java" containing "lab06\_exp05", "src/test/resources", and an "IRE System Library [J2SE-1.6]".
- Editor View:** Shows the content of the "pom.xml" file. The XML code defines a Maven project with version 4.0.0, group ID "devops.upes", artifact ID "lab06\_exp05", and a snapshot version 0.0.1-SNAPSHOT. It includes dependencies for JUnit 4.13 and the maven-site-plugin.
- Outline View:** Shows the project structure and dependencies. It highlights the "dependencies" section under "lab06\_exp05".
- Task List View:** Shows the tasks for the project, including "project.xmlns=http://maven.apache.org/POM/4.0.0", "modelVersion 4.0.0", "groupID devops.upes", "artifactID lab06\_exp05", and "version 0.0.1-SNAPSHOT".

```
<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">
  <modelVersion>4.0.0</modelVersion>
  <groupId>devops.upes</groupId>
  <artifactId>lab06_exp05</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.13</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-site-plugin</artifactId>
      <version>3.9.1</version>
      <type>maven-plugin</type>
    </dependency>
  </dependencies>
</project>
```

The screenshot shows the Eclipse IDE interface with two main panes. The left pane, titled 'Project Explorer', displays a Java project structure. The right pane shows the 'Maven' view, which includes the 'My\_class\_lab06.java' file content and the 'lab06\_exp05/pom.xml' build log.

**Java Code (My\_class\_lab06.java):**

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
3     <modelVersion>4.0.0</modelVersion>
4     <groupId>lab06_exp05</groupId>
5     <artifactId>lab06_exp05</artifactId>
6     <version>0.0.1-SNAPSHOT</version>
7     <dependencies>
8       <dependency>
9         <groupId>junit</groupId>
10        <artifactId>junit</artifactId>
11        <version>4.13.</version>
12        <scope>test</scope>
13      </dependency>
14    </dependencies>
15  </project>
```

**Maven Build Log (lab06\_exp05/pom.xml):**

```
[terminated] lab06(exp05) [7] [Maven Build] /Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justmyjava/SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justmyjava/SLF4J: Found binding in [file:/Applications/Eclipse.app/Contents/Eclipse/config/SLF4J: Actual binding is of type org.slf4j.impl.Slf4jLoggerFactory]
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justmyjava/SLF4J: Found binding in [file:/Applications/Eclipse.app/Contents/Eclipse/config/SLF4J: Found binding in [file:/Applications/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justmyjava/SLF4J: Actual binding is of type org.slf4j.impl.Slf4jLoggerFactory]
[INFO] Scanning for projects...
[INFO] [INFO] -----> devops.uptes:lab06_exp05 -----
[INFO] Building lab06_exp05 0.0.1-SNAPSHOT
[INFO] [INFO] [jar] -----
[INFO] [INFO] --- maven-site-plugin:3.3:site (default-site) @ lab06_exp05 ---
[WARNING] Report plugin org.apache.maven.plugins:maven-project-info-reports-plugin
[WARNING] [WARNING] It is highly recommended to fix these problems because they threaten the
[WARNING] [WARNING] For this reason, future Maven versions might no longer support building
[INFO] configuring report plugin org.apache.maven.plugins:maven-project-info-report
[WARNING] Error injecting: org.apache.maven.report.projectinfo.CIManagementReport
java.lang.NoClassDefFoundError: org/apache/maven/doxia/sitemenderer/DocumentContent
at java.base/java.lang.Class.getDeclaredConstructors0(Native Method)
at java.base/java.lang.Class.privateGetDeclaredConstructors(Class.java:329)
at java.base/java.lang.Class.getConstructors(Class.java:231)
at com.google.inject.InjectorImpl$ContainerInjectionPoint$ContainerInjectionPoint$1.get(InjectorImpl.java:107)
at com.google.inject.internal.ConstructorBindingImpl.create(ConstructorBindingImpl.java:107)
at com.google.inject.internal.InjectorImpl.createUninitializedBinding(InjectorImpl.java:537)
at com.google.inject.internal.InjectorImpl.createJustInTimeBinding(InjectorImpl.java:519)
at com.google.inject.internal.InjectorImpl.createJustInTimeBindingRecurvively(InjectorImpl.java:510)
at com.google.inject.internal.InjectorImpl$GetBindingOrThrow.getBindingOrThrow(InjectorImpl.java:447)
at com.google.inject.internal.InjectorImpl$GetProviderOrThrow.getProvider(InjectorImpl.java:404)
at com.google.inject.internal.InjectorImpl.getProvider(InjectorImpl.java:119)
at com.google.inject.internal.InjectorImpl.getInstance(InjectorImpl.java:106)
at org.eclipse.sisu.space.AbstractDeferredClass.get(AbstractDeferredClass.java:43)
at com.google.inject.internal.InternalFactoryToInitializableAdapter.provide(InternalFactoryToInitializableAdapter.java:64)
at com.google.inject.internal.ProviderInternalFactory$1.call(ProviderInternalFactory.java:52)
at com.google.inject.internal.ProviderListenerStack$Callback$Provision.provide(ProviderListenerStack$Callback$Provision.java:60)
at com.google.inject.internal.ProviderListenerStack$Callback$Provision.provide(ProviderListenerStack$Callback$Provision.java:60)
at com.google.inject.internal.ProviderInternalFactory$1.call(ProviderInternalFactory.java:52)
at com.google.inject.internal.InternalFactoryToInitializableAdapter.get(InternalFactoryToInitializableAdapter.java:64)
at com.google.inject.InjectorImpl$1.get(InjectorImpl.java:1050)
at org.eclipse.sisu.inject.Guice4$1.get(Guice4.java:162)
at org.eclipse.sisu.inject.LazyBeanEntry.getValue(LazyBeanEntry.java:83)
at org.eclipse.sisu.inject.LazyPlexusBean.getValue(LazyPlexusBean.java:101)
at org.codehaus.plexus.DefaultPlexusContainer.lookup(DefaultPlexusContainer.java:265)
at org.codehaus.plexus.DefaultPlexusContainer.lookup(DefaultPlexusContainer.java:256)
at org.apache.maven.plugin.internal.MavenPluginManager.getConfigure
```

# **EXPERIMENT 6**

## Aim: Create a simple Maven Project using CLI

## SCREENSHOTS →

```
2993: remote => xyz.luan.generator:xyz-gae-generator (-)
2994: remote => xyz.luan.generator:xyz-generator (-)
2995: remote => za.co.absa.hyperdrive:component-archetype (-)
2996: remote => za.co.absa.hyperdrive:component-archetype_2.11 (-)
2997: remote => za.co.absa.hyperdrive:component-archetype_2.12 (-)
Choose a number or apply filter (format: [groupid:]artifactid, case sensitive contains): 1758: 1758
Choose org.apache.maven.archetypes:maven-archetype-quickstart version:
1: 1.0-alpha-1
2: 1.0-alpha-2
3: 1.0-alpha-3
4: 1.0-alpha-4
5: 1.0
6: 1.1
7: 1.3
8: 1.4
Choose a number: 8: 1.4
Choose org.apache.maven.archetypes:maven-archetype-quickstart version:
1: 1.0-alpha-1
2: 1.0-alpha-2
3: 1.0-alpha-3
4: 1.0-alpha-4
5: 1.0
6: 1.1
7: 1.3
8: 1.4
Choose a number: 8: 8
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype-quickstart-1.4.pom (1.6 kB at 3.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/maven-archetype-bundles-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/maven-archetype-bundles-1.4.pom (4.5 kB at 7.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.4/maven-archetype-quickstart-1.4.jar (7.1 kB at 17 kB/s)
Define value for property 'groupId': devops.upes
Define value for property 'artifactId': Lab10-exp6
Define value for property 'version': 1.0-SNAPSHOT : 1.0-SNAPSHOT
Define value for property 'package': devops.upes : lab10
Define value for property 'configuration':
groupId: devops.upes
artifactId: Lab10-exp6
version: 1.0-SNAPSHOT
package: lab10
Y : y
[INFO] -----
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: devops.upes
[INFO] Parameter: artifactId, Value: Lab10-exp6
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: devops.upes
[INFO] Parameter: packageInPathFormat, Value: lab10
[INFO] Parameter: package, Value: lab10
[INFO] Parameter: groupId, Value: devops.upes
[INFO] Parameter: artifactId, Value: Lab10-exp6
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /Users/prathmyagi/Desktop/ECLIPS/EMR_LAB/lab10(exp6)/Lab10-exp6
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 03:43 min
[INFO] Finished at: 2021-03-23T13:43:14+05:30
[INFO] -----
prathmyagi@prathmyagi-MacBook-Air lab10(exp6) %
```

```
Last login: Tue Mar 23 13:28:27 on console
prathamtyagi@Prathams-MacBook-Air ~ % ls
Applications      Documents      Library       Music        Pictures      VirtualBox VMs
Desktop          Downloads     Movies        PacketrTracer 7.3.1.0362 Public
prathamtyagi@Prathams-MacBook-Air ~ % cd Desktop
prathamtyagi@Prathams-MacBook-Air Desktop % ls
ECLIPSI_25      Screenshot 2021-03-21 at 1.19.18 PM.png
PROJECT_25      Screenshot 2021-03-09 at 8.16.40 PM.png
prathamtyagi@Prathams-MacBook-Air Desktop % cd /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab10\ (exp6)
prathamtyagi@Prathams-MacBook-Air lab10\ (exp6) % mvn -version
Apache Maven 3.6.3 (ceceddd34309269d9abb5b032b5451ba8ab28837)
Maven home: /usr/local/Cellar/maven/3.6.3/libexec
Java version: 11.0.2, vendor: N/A, runtime: /usr/local/Cellar/openjdk/15.0.2/libexec/jdk/Contents/Home
Default locale: en_US, platform encoding: UTF-8
OS name: "mac os x", version: "10.15.7", arch: "x86_64", family: "mac"
prathamtyagi@Prathams-MacBook-Air lab10\ (exp6) % cd /usr/local/Cellar/maven/3.6.3/libexec
prathamtyagi@Prathams-MacBook-Air lab10\ (exp6) % ls
prathamtyagi@Prathams-MacBook-Air libexec % cd /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab10\ (exp6)
prathamtyagi@Prathams-MacBook-Air lab10\ (exp6) % mvn archetype:generate
[INFO] Scanning for projects...
[INFO]
[INFO] -----> org.apache.maven:standalone-pom <-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO]   [ pom ] 
[INFO]
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Interactive mode
[INFO] No archetype defined. Using maven-archetype-quickstart (org.apache.maven.archetypes:maven-archetype-quickstart:1.0)
Choose archetype:
1: remote -> am.ik.archetype:eilm-spring-boot-blank-archetype (Blank multi project for Spring Boot + Elm)
2: remote -> am.ik.archetype:java-gradle-blank-archetype (Blank multi project for Java + Gradle)
3: remote -> am.ik.archetype:graalvm-springweb-blank-archetype (Blank project for GraalVM + Spring MVC)
4: remote -> am.ik.archetype:graalvm-springwebflux-blank-archetype (Blank project for GraalVM + Spring MVC)
5: remote -> am.ik.archetype:maven-reactis-blank-archetype (Blank Project for React.js)
6: remote -> am.ik.archetype:mvnpack-rcp-jersey-blank-archetype (Blank Project for Spring Boot + Jersey)
7: remote -> am.ik.archetype:mvc-1.0-blank-archetype (MVC 1.0 Blank Project)
8: remote -> am.ik.archetype:reactjs-blank-archetype (React.js Blank Project)
9: remote -> am.ik.archetype:spring-boot-docker-blank-archetype (Blank Project for Spring Boot)
10: remote -> am.ik.archetype:spring-boot-gae-blank-archetype (GAE Blank Project for Spring Boot)
11: remote -> am.ik.archetype:spring-boot-jersey-blank-archetype (Blank Project for Spring Boot + Jersey)
12: remote -> am.ik.archetype:spRING-fu-jafu-blank-archetype (Blank project for Vanilia Spring WebFlux.fu)
13: remote -> am.ik.archetype:vanilla-spring-webflux-fn-blank-archetype (Blank project for Vanilla Spring WebFlux.fn)
14: remote -> at.chatz.archetype:chrt-spring-sample (Archetype for Spring Vanilla Webapps)
15: remote -> br.com.address.addresses:address-archetype (Address Archetype)
16: remote -> bit.turionline.ecosystem:turionline-ecosystem-microservice-archetype (Turionline.biz Ecosystem: Serverless Microservice Archetype)
17: remote -> br.com.address.addresses:struts2-archetype (an archetype web 2.0 + struts2 (bootstrap + jquery) + JPA 2.1 with struts2 login system)
18: remote -> br.com.address.addresses:struts2-base-archetype (An Archetype with JPA 2.1; Struts2 core 2.3.28.1; Jquery struts plugin; Struts BootStrap plugin; json Struts plugin; Login System using Session and Interceptor)
19: remote -> br.com.anteros:Anteros-Archetype (Anteros Archetype for Java Web projects.)
20: remote -> br.com.ingenieuex:elasticbeanstalk-dotnet-archetype (Model Driven Annotations Generator)
21: remote -> br.com.diogokmaven:dociat-archetype (A Maven archetype to create Docilets for Javadoc)
22: remote -> br.com.ingenieuex:elasticbeanstalk-docker-webapp-archetype (A Maven Archetype for Publishing Dropwizard-based Services on AWS' Elastic Beanstalk Service)
23: remote -> br.com.ingenieuex:elasticbeanstalk-javase-archetype (A Maven Archetype Encompassing Jetty for Publishing Java SE Services on AWS' Elastic Beanstalk Service)
24: remote -> br.com.ingenieuex:elasticbeanstalk-service-webapp-archetype (A Maven Archetype Encompassing RestAssured, Jetty, Jackson, Guice and Jersey for Publishing JAX-RS-based Services on AWS' Elastic Beanstalk Service)
```

pom.xml) No Selection

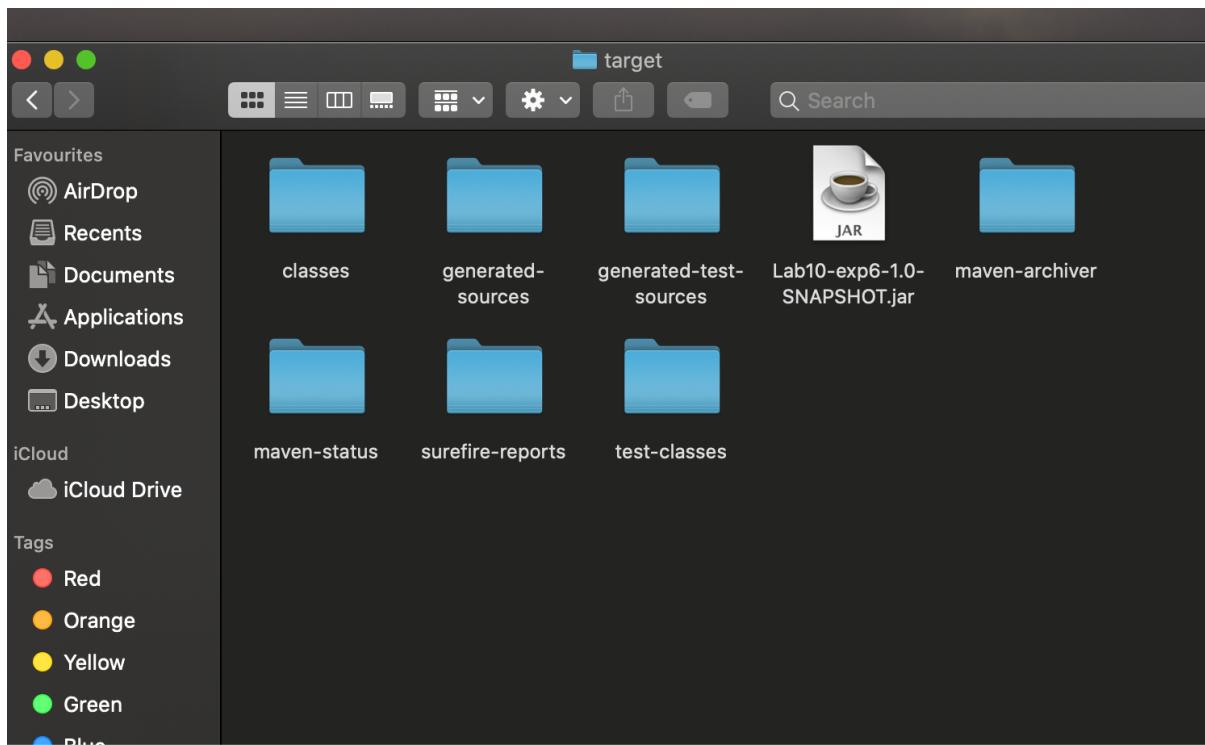
```

5   <modelVersion>4.0.0</modelVersion>
6   <groupId>deops.upes</groupId>
7   <artifactId>Lab10-exp6</artifactId>
8   <version>1.0-SNAPSHOT</version>
9
10  <name>Lab10-exp6</name>
11  <!-- FIXME change it to the project's website -->
12  <url>https://www.example.com</url>
13
14  <properties>
15    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
16    <maven.compiler.source>1.7</maven.compiler.source>
17    <maven.compiler.target>1.7</maven.compiler.target>
18  </properties>
19
20  <dependencies>
21    <dependency>
22      <groupId>junit</groupId>
23      <artifactId>junit</artifactId>
24      <version>4.11</version>
25      <scope>test</scope>
26    </dependency>
27  </dependencies>
28
29
30  <build>
31    <pluginManagement>!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
32    <plugins>
33      <plugin>
34        <groupId>org.apache.maven.plugins</groupId>
35        <artifactId>maven-clean-plugin</artifactId>
36        <version>3.1.0</version>
37      </plugin>
38      <!-- default lifecycle, jar packaging: see https://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin_bindings_for_jar_packaging -->
39      <plugin>
40        <groupId>org.apache.maven.plugins</groupId>
41        <artifactId>maven-resources-plugin</artifactId>
42        <version>3.0.2</version>
43      </plugin>
44      <plugin>
45        <groupId>org.apache.maven.plugins</groupId>
46        <artifactId>maven-compiler-plugin</artifactId>
47        <version>3.8.0</version>
48      </plugin>
49      <plugin>
50        <groupId>org.apache.maven.plugins</groupId>
51        <artifactId>maven-surefire-plugin</artifactId>
52        <version>2.22.1</version>
53      </plugin>
54      <plugin>
55        <groupId>org.apache.maven.plugins</groupId>
56        <artifactId>maven-jar-plugin</artifactId>
57        <version>3.0.2</version>
58      </plugin>
59      <plugin>
60        <groupId>org.apache.maven.plugins</groupId>
61        <artifactId>maven-install-plugin</artifactId>
62        <version>3.0.2</version>
63      </plugin>
64      <plugin>
65        <groupId>org.apache.maven.plugins</groupId>
66        <artifactId>maven-site-plugin</artifactId>
67        <version>3.7.1</version>
68      </plugin>
69      <plugin>
70        <groupId>org.apache.maven.plugins</groupId>
71        <artifactId>maven-project-info-reports-plugin</artifactId>
72        <version>3.0.0</version>
73      </plugin>
74    </pluginManagement>
75  </build>
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/slf4j-api/1.5.6/slf4j-api-1.5.6.jar (22 kB at 6.9 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/slf4j/jcl-over-slf4j/1.6.6/jcl-over-slf4j-1.6.6.jar (17 kB at 4.8 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M0/qdox-2.0-M0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.2.1/maven-repository-metadata-2.2.1.jar (26 kB at 7.4 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-monitor/2.2.1/maven-monitor-2.2.1.jar (10 kB at 2.9 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-error-diagnostics/2.2.1/maven-error-diagnostics-2.2.1.jar (13 kB at 3.6 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-toolchain/2.2.1/maven-toolchain-2.2.1.jar (38 kB at 10 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M0/qdox-2.0-M0.jar (316 kB at 68 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom (3.1 kB at 6.9 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar (85 kB at 128 kB/s)
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running lab10.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.057 s - in lab10.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ Lab10-exp6 ---
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/3.1.1/maven-archiver-3.1.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/3.1.1/maven-archiver-3.1.1.pom (4.3 kB at 5.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared-maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.pom (4.6 kB at 12 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.3/plexus-archiver-3.3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.3/plexus-archiver-3.3.pom (5.3 kB at 6.3 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/2.7.1/plexus-archiver/2.7.1.pom (4.9 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.pom (13 kB at 21 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.pom (1.9 kB at 3.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.pom (5.3 kB at 7.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/3.1.1/maven-archiver-3.1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/plexus/plexus-io/2.7.1/plexus-io-2.7.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar (24 kB at 47 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.pom (86 kB at 128 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.jar (187 kB at 264 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar (154 kB at 173 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.jar (108 kB at 90 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar (426 kB at 265 kB/s)
[INFO] Building jar: /Users/prathantyagi/Desktop/ECLIPS/BMR_LAB/Lab10/exp6/target/Lab10-exp6-1.0-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 48.983 s
[INFO] Finished at: 2021-03-23T13:48:05+05:30
[INFO] -----
prathantyagi@Prathams-MacBook-Air:Lab10-exp6 % 
```

```

[INFO] prathamtyagi@Prathams-MacBook-Air lab10-exp6 % cd /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab10\exp6\Lab10-exp6
[INFO] prathamtyagi@Prathams-MacBook-Air lab10-exp6 % mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] Building Lab10-exp6 1.0-SNAPSHOT
[INFO] --- devops.upes:lab10-exp6 [jar]
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.pom (7.1 kB at 4.9 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom (10 kB at 25 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar (32 kB at 41 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.pom (12 kB at 28 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom (11 kB at 27 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-parent/32/maven-parent-32.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-parent/32/maven-parent-32.pom (43 kB at 68 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/space/29/space-29.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/space/29/space-29.pom (16 kB at 20 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.jar (62 kB at 90 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-plugin-2.22.1.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.1/surefire-plugin-2.22.1.pom (5.0 kB at 9.8 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/space/surefire/2.22.1/surefire-2.22.1.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/space/surefire/2.22.1/surefire-2.22.1.pom (2 kB at 41 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/maven-surefire-plugin-2.22.1.jar (41 kB at 71 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom (6.2 kB at 11 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar (27 kB at 58 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.pom (2.3 kB at 4.3 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/junit/junit/4.11/junit-4.11.jar (245 kB at 239 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (@Lab10-exp6 ---)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.pom (748 kB at 1.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.jar (3.8 kB at 8.5 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/3.3.2/plexus-containers-3.3.2.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-containers/3.3.2/plexus-containers-3.3.2.pom (22 kB at 56 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.pom (5.7 kB at 11 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.0/maven-shared-utils-3.0.0.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.0/maven-shared-utils-3.0.0.pom (5.6 kB at 8.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/commons-io/commons-io/2.4/commons-io-2.4.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/commons-io/2.4/commons-io-2.4.pom (10 kB at 28 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/commons/commons-parent/25/commons-parent-25.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/commons/commons-parent/25/commons-parent-25.pom (48 kB at 68 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.24/plexus-interpolation-1.24.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.24/plexus-interpolation-1.24.pom (1.5 kB at 2.2 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/syntaxnet/plexus/plexus-build-api/0.6.7/plexus-build-api-0.6.7.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/syntaxnet/plexus/plexus-build-api/0.6.7/plexus-build-api-0.6.7.pom (3.2 kB at 5.3 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/syntaxnet/spice/spice-parent/15/spice-parent-15.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/syntaxnet/spice/spice-parent/15/spice-parent-15.pom (8.4 kB at 21 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.24/plexus-interpolation-1.24.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.24/plexus-interpolation-1.24.pom (2.6 kB at 5.6 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-component-annotations/1.6/plexus-component-annotations-1.6.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/plexus/plexus-10-z.../1/plexus-10-z.../1.pom (4.9 kB at 19 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.pom (13 kB at 21 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.pom (1.9 kB at 3.2 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.pom
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.pom (5.3 kB at 7.5 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archiver/3.1/maven-archiver-3.1.1.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/plexus/plexus-plexus-io/2.7.1/plexus-io-2.7.1.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/apache/maven/archiver/3.1.1/maven-archiver-3.1.1.jar (24 kB at 47 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.jar
[INFO] Downloaded   from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.7.1/plexus-io-2.7.1.jar (86 kB at 128 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.jar (187 kB at 264 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar (154 kB at 173 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar (426 kB at 265 kB/s)
[INFO]
[INFO] --- BUILD SUCCESS ---
[INFO]
[INFO] Total time: 48.983 s
[INFO] Finished at: 2021-03-23T13:48:57+05:30
[INFO]
prathamtyagi@Prathams-MacBook-Air Lab10-exp6 % java -cp target/Lab10-exp6-1.0-SNAPSHOT.jar devops.upes.App
Error: Could not find or load main class devops.upes.App
Caused by: java.lang.ClassNotFoundException: devops.upes.App
prathamtyagi@Prathams-MacBook-Air Lab10-exp6 % java -cp target/Lab10-exp6-1.0-SNAPSHOT.jar lab10.App
Hello World!
prathamtyagi@Prathams-MacBook-Air Lab10-exp6 %

```



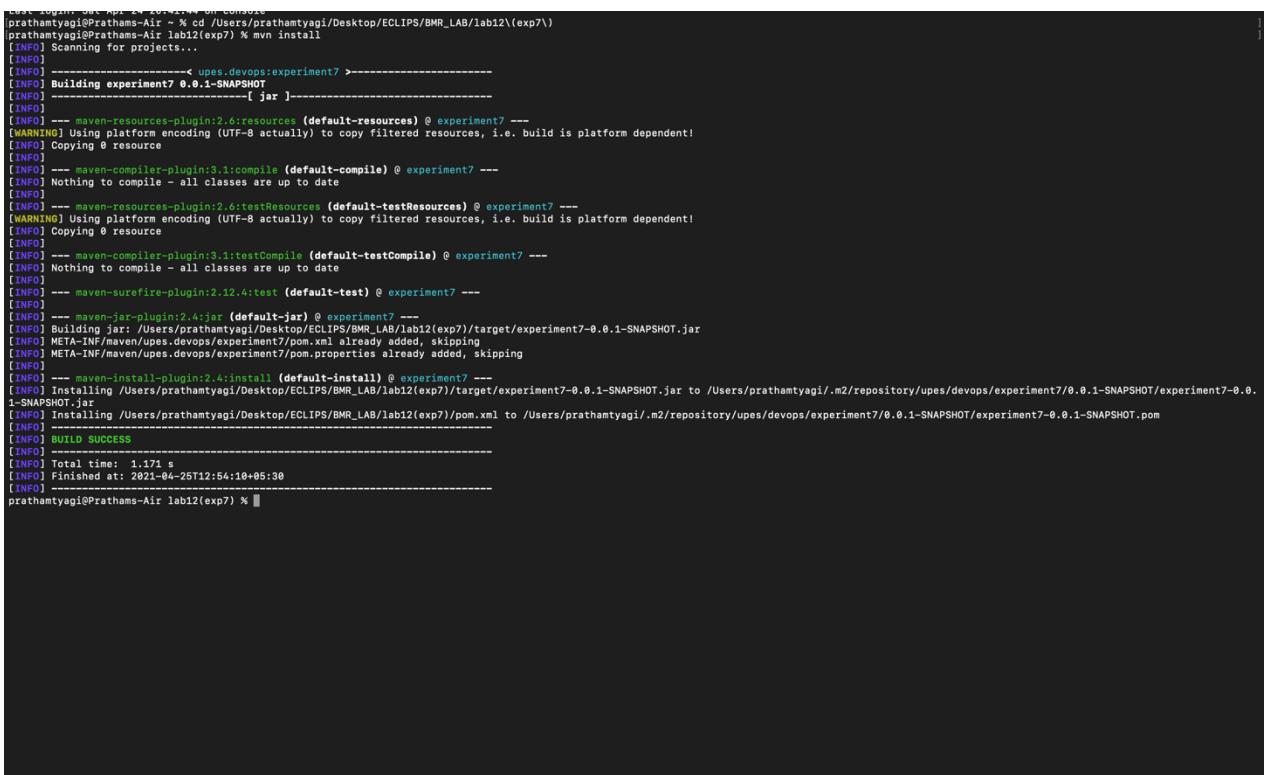
# EXPERIMENT 8

## Aim: Build Profile using Maven

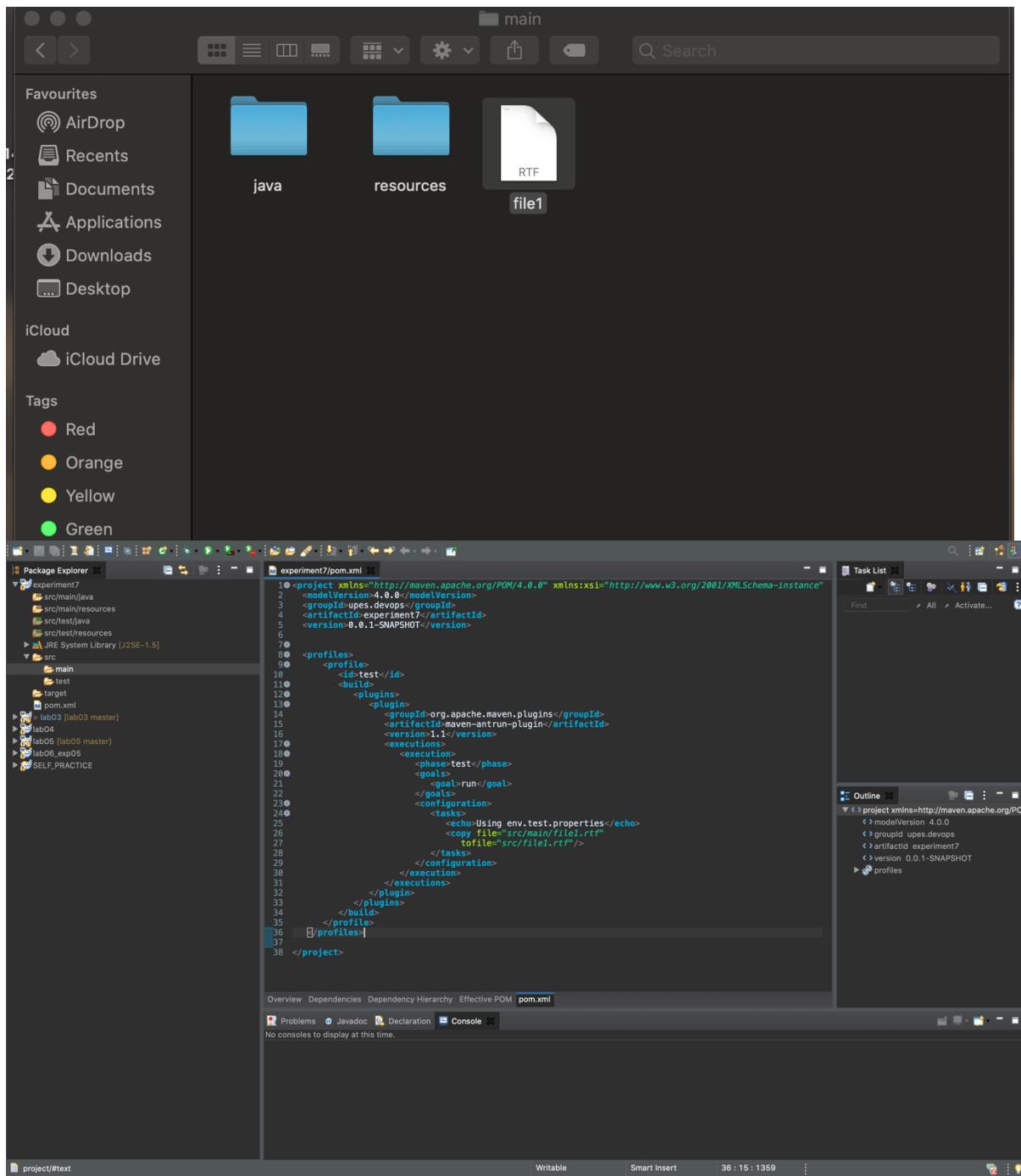
A Build profile is a set of configuration values, which can be used to set or override default values of Maven build. Using a build profile, you can customize build for different environments such as Production v/s Development environments.

Profiles are specified in pom.xml file using its activeProfiles/profiles elements and are triggered in variety of ways. Profiles modify the POM at build time, and are used to give parameters different target environments (for example, the path of the database server in the development, testing, and production environments).

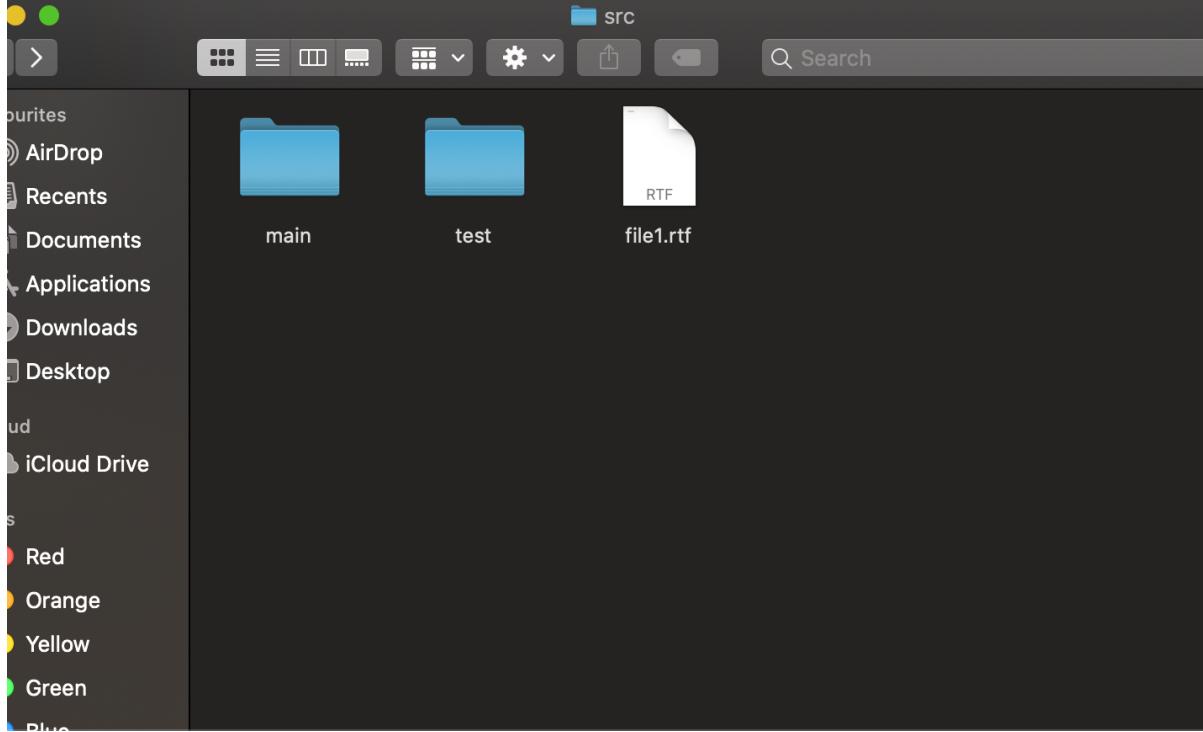
## SCREENSHOTS→



```
prathamtyagi@Prathams-Air ~ % cd /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab12\exp7\ prathamtyagi@Prathams-Air lab12(exp7) % mvn install [INFO] Scanning for projects... [INFO] [INFO] ----- < upes.devops:experiment7 >----- [INFO] Building experiment7 0.0.1-SNAPSHOT [INFO] [INFO] [jar]----- [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ experiment7 --- [WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent! [INFO] Copying 0 resource [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ experiment7 --- [INFO] Nothing to compile - all classes are up to date [INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ experiment7 --- [WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent! [INFO] Copying 0 resource [INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ experiment7 --- [INFO] Nothing to compile - all classes are up to date [INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ experiment7 --- [INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ experiment7 --- [INFO] Building jar: /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab12(exp7)/target/experiment7-0.0.1-SNAPSHOT.jar [INFO] META-INF/maven/upes.devops/experiment7/pom.xml already added, skipping [INFO] META-INF/maven/upes.devops/experiment7/pom.properties already added, skipping [INFO] --- maven-install-plugin:2.4:install (default-install) @ experiment7 --- [INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab12(exp7)/target/experiment7-0.0.1-SNAPSHOT.jar to /Users/prathamtyagi/.m2/repository/upes/devops/experiment7/0.0.1-SNAPSHOT/experiment7-0.0.1-SNAPSHOT.jar [INFO] Installing /Users/prathamtyagi/Desktop/ECLIPS/BMR_LAB/lab12(exp7)/pom.xml to /Users/prathamtyagi/.m2/repository/upes/devops/experiment7/0.0.1-SNAPSHOT/experiment7-0.0.1-SNAPSHOT.pom [INFO] ----- [INFO] BUILD SUCCESS [INFO] ----- [INFO] Total time: 1.171 s [INFO] Finished at: 2021-04-25T12:54:10+05:30 [INFO] [INFO] prathamtyagi@Prathams-Air lab12(exp7) %
```



```
[INFO] BUILD SUCCESS
[INFO] Total time: 1.171 s
[INFO] Finished at: 2021-04-25T12:54:10+08:00
prathayagiprathame-Air lab1b2(exp0) % mvn test -Dtest
[INFO] Scanning for projects...
[INFO] Building experiment7 0.0.1-SNAPSHOT
[INFO]   task-segment: [jar]
[INFO]    at org.apache.maven.lifecycle.internal.builder.singlethreaded.SingleThreadedBuilderImpl.build(SingleThreadedBuilderImpl.java:130)
[INFO]    at org.apache.maven.lifecycle.internal.LifecycleImpl.build(LifecycleImpl.java:124)
[INFO]    at org.apache.maven.lifecycle.internal.LifecycleImpl.execute(LifecycleImpl.java:100)
[INFO]    at org.apache.maven.DefaultMaven.doExecute(DefaultMaven.java:353)
[INFO]    at org.apache.maven.DefaultMaven.execute(DefaultMaven.java:156)
[INFO]    at org.apache.maven.cli.MavenCli.execute(MavenCli.java:537)
[INFO]    at org.apache.maven.cli.MavenCli.main(MavenCli.java:199)
[INFO]    at jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
[INFO]    at jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
[INFO]    at jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
[INFO]    at java.lang.reflect.Method.invoke(Method.java:566)
[INFO]    at org.codehaus.plexus.classworlds.launcher.Launcher.launchForReal(Launcher.java:305)
[INFO]    at org.codehaus.plexus.classworlds.launcher.Launcher.launch(Launcher.java:286)
[INFO]    at org.codehaus.plexus.classworlds.launcher.Launcher.mainWithExitCode(Launcher.java:416)
[INFO]    at org.codehaus.plexus.classworlds.launcher.Launcher.main(Launcher.java:356)
[INFO] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ experiment7 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6.1:resources (default-testResources) @ experiment7 ---
[INFO] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ experiment7 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6.1:testResources (default-testResources) @ experiment7 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-compiler-plugin:3.8.1:processTestResources (default-testResources) @ experiment7 ---
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:processTestCompile (default-testCompile) @ experiment7 ---
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:jar (default-jar) @ experiment7 ---
[INFO] Building jar: /Users/prathayagi/Desktop/ECLIPS/SMB_LAB/lab1b2/exp0/target/experiment7-0.0.1.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom (1.7 kB at 3.9 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom (1.7 kB at 3.9 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.pom (1.5 kB at 3.8 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.0.1/maven-model-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.0.1/maven-model-2.0.1.pom (2.5 kB at 6.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.0.1/maven-model-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/2.0.1/maven-model-2.0.1.pom (2.5 kB at 6.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact-manager/2.0.1/maven-artifact-manager-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact-manager/2.0.1/maven-artifact-manager-2.0.1.pom (1.4 kB at 3.6 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.0.1/maven-repository-metadata-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.0.1/maven-repository-metadata-2.0.1.pom (1.0 kB at 3.3 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.pom (766 B at 1.9 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact-launcher/1.6.5/maven-artifact-launcher-1.6.5.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact-launcher/1.6.5/maven-artifact-launcher-1.6.5.pom (665 B at 2.3 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-asl/2.0.1/maven-plugin-asl-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-asl/2.0.1/maven-plugin-asl-2.0.1.pom (663 B at 1.6 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.pom
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.pom (38 kB at 63 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.0.1/maven-repository-metadata-2.0.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/2.0.1/maven-repository-metadata-2.0.1.pom (20 kB at 20 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.jar (49 kB at 45 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.1/maven-project-2.0.1.jar (80 kB at 67 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-profile/2.0.1/maven-profile-2.0.1.jar (58 kB at 77 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/2.0.1/maven-artifact-2.0.1.jar (78 kB at 45 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin/2.0.1/maven-plugin-2.0.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin/2.0.1/maven-plugin-2.0.1.jar (8.2 kB at 4.7 kB/s)
[INFO] [INFO] Executing task
[INFO] [INFO]   (copy) Copying 1 file to /Users/prathayagi/Desktop/ECLIPS/SMB_LAB/lab1b2/exp0/src
[INFO] [INFO] Executed tasks
[INFO] BUILD SUCCESS
[INFO] Total time: 12.893 s
[INFO] Finished at: 2021-04-25T12:57:24+08:00
prathayagiprathame-Air lab1b2(exp0) %
```



The screenshot shows a code editor with two tabs: 'settings.xml' and a terminal window below it.

**Code Editor (settings.xml):**

```
221 |     <artifactId>myplugin</artifactId>
222 |
223 |     <configuration>
224 |         <tomcatLocation>${tomcatPath}</tomcatLocation>
225 |     </configuration>
226 | </plugin>
227 | ...
228 |
229 |     NOTE: If you just wanted to inject this configuration whenever someone set 'target-env' to
230 |             anything, you could just leave off the <value/> inside the activation-property.
231 |
232 <profile>
233     <id>env-dev</id>
234
235     <activation>
236         <property>
237             <name>target-env</name>
238             <value>dev</value>
239         </property>
240     </activation>
241
242     <properties>
243         <tomcatPath>/path/to/tomcat/instance</tomcatPath>
244     </properties>
245 </profile>
246 -->
247 </profiles>
248
249 <!-- activeProfiles
250 | List of profiles that are active for all builds.
251 |
252 <activeProfiles>
253     <activeProfile>alwaysActiveProfile</activeProfile>
254     <activeProfile>anotherAlwaysActiveProfile</activeProfile>
255 </activeProfiles>
256 -->
257 <activeProfiles>
258     <activeProfile>test</activeProfile>
259 </activeProfiles>
260
261 </settings>
262
```

**Terminal Output:**

```
[prathamtyagi@Prathams-Air lab12(exp7) % mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< upes.devops:experiment7 >-----
[INFO] Building experiment7 0.0.1-SNAPSHOT
[INFO]   [ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ experiment7 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ experiment7 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ experiment7 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ experiment7 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ experiment7 ---
[INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ experiment7 ---
[INFO] Executing tasks
[echo] Using env.test.properties
[INFO] Executed tasks
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time:  1.178 s
[INFO] Finished at: 2021-04-25T13:18:03+05:30
[INFO] -----
```

# EXPERIMENT 9

## Aim: Hands-on on selenium.

## SCREENSHOTS →

**Project: lab9\***

Tests +

Search tests...

test1\*

https://www.google.co.in

Command	Target	Value
1 open	/	
2 set window size	1440x900	
3 type	name=q	devops
4 send keys	name=q	\$(KEY_ENTER)
5 mouse over	css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd	
6 mouse out	css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd	
7 click	css=#_eGFYWPWFAY2-9QOauojAbw120 .KA4pGd	
8 click	id=wp-tabs-container	

Command

Target

Value

Description

**Log** **Reference**

4. sendKeys on name=q with value \$(KEY\_ENTER) OK 18:11:14  
5. mouseOver on css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd OK 18:11:16  
6. mouseOut on css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd OK 18:11:19  
7. Trying to find css=#\_eGFYWPWFAY2-9QOauojAbw120 .KA4pGd... OK 18:11:20  
Warning Element found with secondary locator xpath="//div[4]/div/div/div/g-accordion-expander/div/div/div. To use it by default, update the test step to use it as the primary locator.  
8. click on id=wp-tabs-container OK 18:11:51  
**'test1' completed successfully** 18:11:51

**Project: lab9\***

Tests +

Search tests...

test1\*

https://www.google.co.in

Command	Target	Value
1 open	/	
2 set window size	1440x900	
3 type	name=q	devops
4 send keys	name=q	\$(KEY_ENTER)
5 mouse over	css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd	
6 mouse out	css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd	
7 click	css=#_eGFYWPWFAY2-9QOauojAbw120 .KA4pGd	
8 click	id=wp-tabs-container	

Command

Target

Value

Description

**Log** **Reference**

4. sendKeys on name=q with value \$(KEY\_ENTER) OK 18:11:14  
5. mouseOver on css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd OK 18:11:16  
6. mouseOut on css=.eA0Zlc:nth-child(2) .GMCzAd > .fWhgmd OK 18:11:19  
7. Trying to find css=#\_eGFYWPWFAY2-9QOauojAbw120 .KA4pGd... OK 18:11:20  
Warning Element found with secondary locator xpath="//div[4]/div/div/div/g-accordion-expander/div/div/div. To use it by default, update the test step to use it as the primary locator.  
8. click on id=wp-tabs-container OK 18:11:51  
**'test1' completed successfully** 18:11:51

Project: lab9\*

Executing self-test-case\*

test1\*

https://www.google.co.in

Command	Target	Value
1 open	/	
2 type	name=q	UPES
3 click	name=btnK	
4 close		

Command: open

Target: /

Value:

Description:

Runs: 2 Failures: 0

Log Reference

Running 'self-test-case'

1. open on / OK

2. type on name=q with value UPES OK

3. click on name=btnK OK

4. close OK

'self-test-case' completed successfully

Running 'test1'

18:21:29  
18:21:29  
18:21:29  
18:21:31  
18:21:32  
18:21:32  
18:21:32

.....The End.....