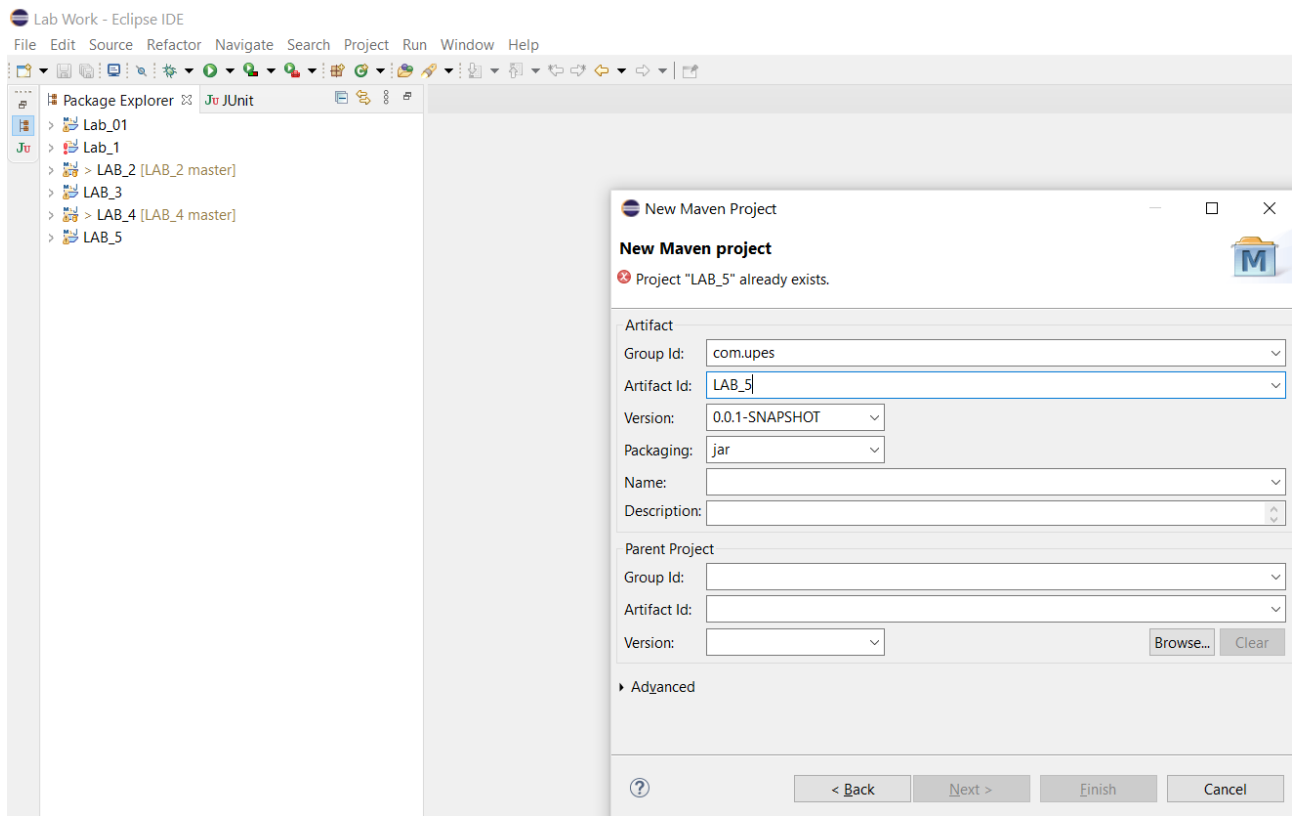


**AIM:**

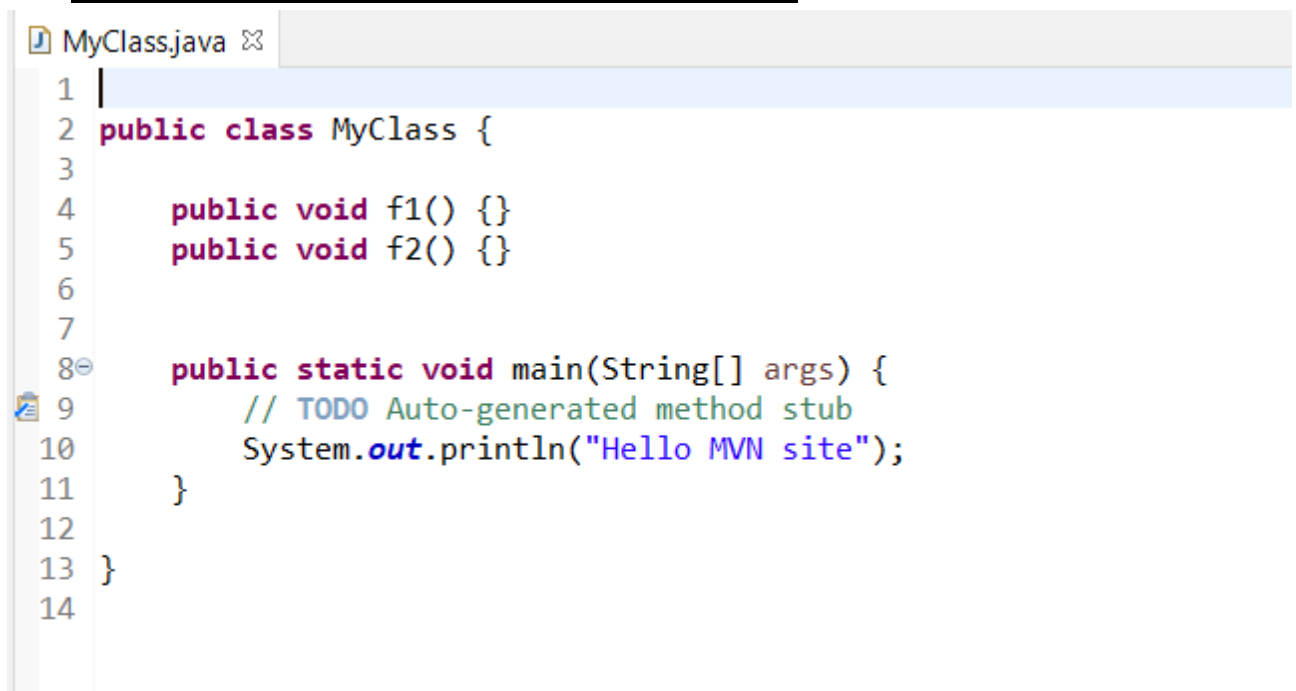
TO CREATE A HTML SITE USING MAVEN  
PROJECT.

# **SOLUTION:**

## **? CREATING A SIMPLE MAVEN PROJECT**



## **? CREATE A CLASS IN MAVEN PROJECT**



## ? CREATE A JUNIT TEST CASE IN MAVEN PROJECT

```
MyClass.java *MyTestClass.java
1 import static org.junit.Assert.*;
4
5 public class MyTestClass {
6
7     @Test
8     public void test() {
9
10    }
11
12 }
```

## ? EDIT THE POM.XML FILE WITH HIGHLIGHTED CODE

1. This code is used to run Compile and Install goal...

Lab Work - LAB\_5/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

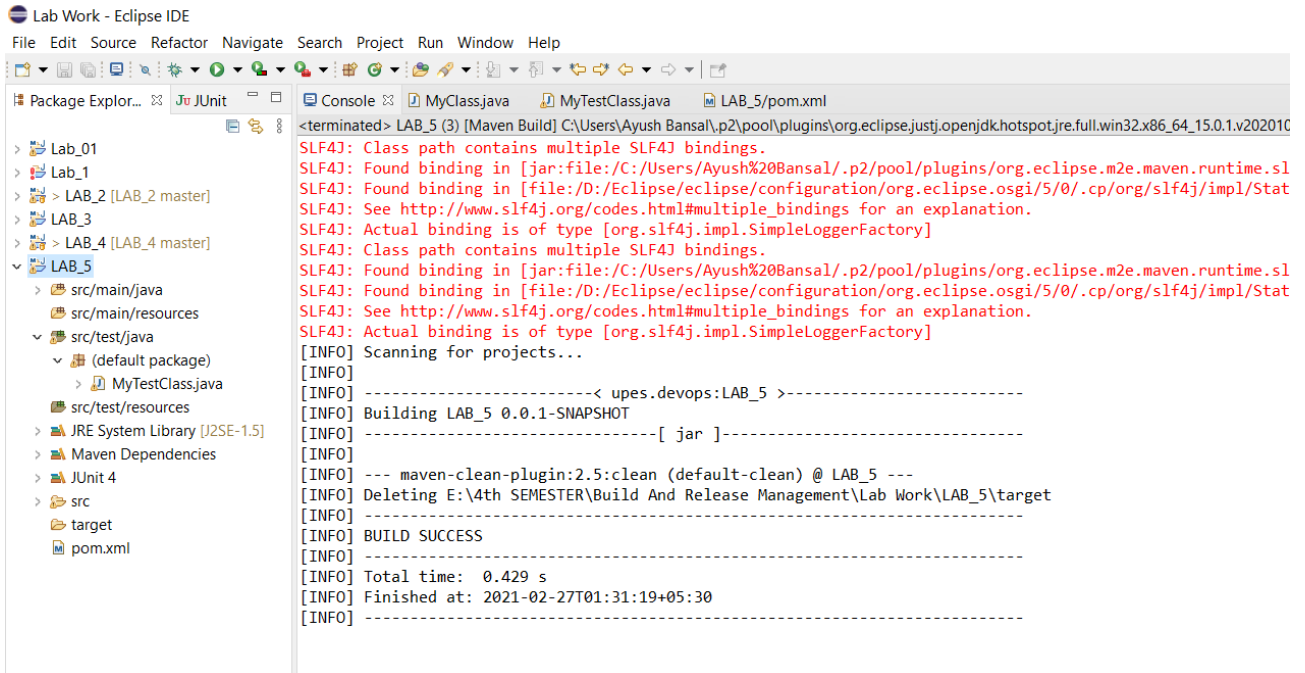
Package Explorer JUnit MyClass.java \*MyTestClass.java \*LAB\_5/pom.xml

Lab\_01  
Lab\_1  
LAB\_2 [LAB\_2 master]  
LAB\_3  
LAB\_4 [LAB\_4 master]  
LAB\_5  
src/main/java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library [J2SE-1.5]  
Maven Dependencies  
JUnit 4  
src  
target  
pom.xml

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema"
2 <modelVersion>4.0.0</modelVersion>
3 <groupId>upes.devops</groupId>
4 <artifactId>LAB_5</artifactId>
5 <version>0.0.1-SNAPSHOT</version>
6
7 <properties>
8 <maven.compiler.source>1.8</maven.compiler.source>
9 <maven.compiler.target>1.8</maven.compiler.target>
10 </properties>
11
12 <dependencies>
13 <dependency>
14 <groupId>junit</groupId>
15 <artifactId>junit</artifactId>
16 <version>4.13</version>
17 <scope>test</scope>
18 </dependency>
19 </dependencies>
20
21 </project>
```

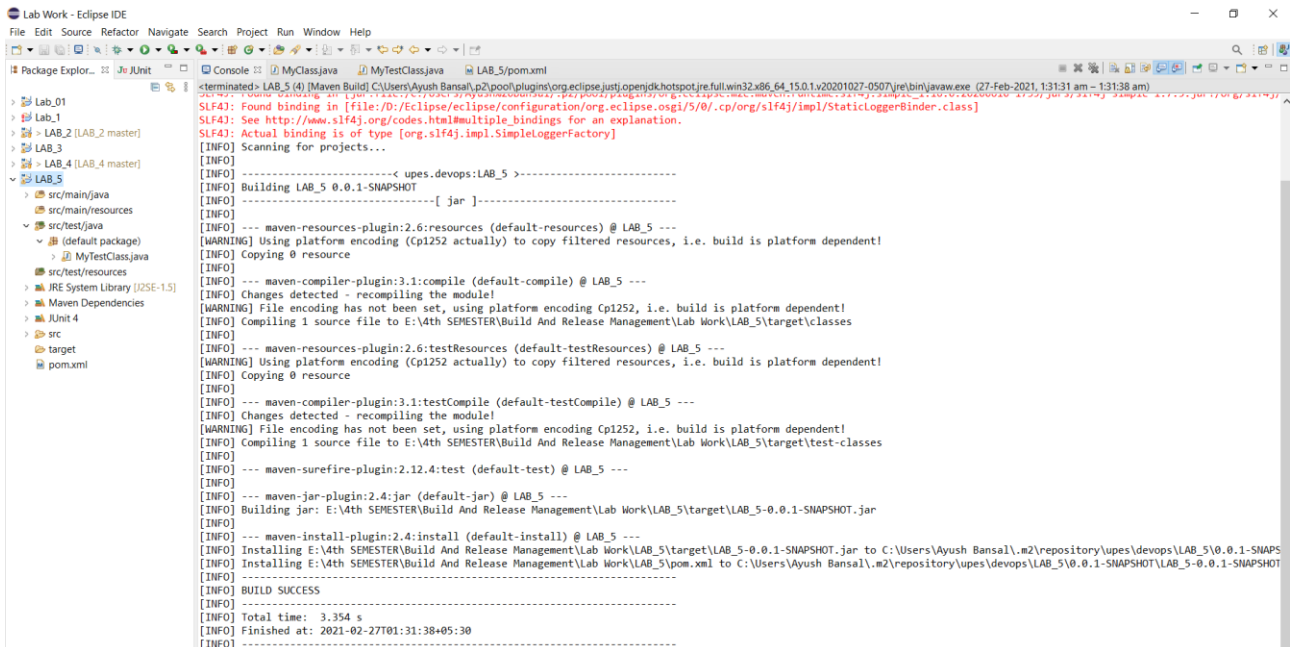
## RUN THE FOLLOWING GOALS

- ### CLEAN



```
<terminated> LAB_5 (3) [Maven Build] C:\Users\Ayush Bansal\.p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_15.0.1.v20201027-0507\jre\bin\java.exe (27-Feb-2021, 1:31:38 am)
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/C:/Users/Ayush%20Bansal/.p2/pool/plugins/org.eclipse.m2e.maven.runtime.slf4j.impl/StaticLoggerBinder.class]
SLF4J: Found binding in [file:/D:/Eclipse/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 [jar:file:/C:/Users/Ayush%20Bansal/.p2/pool/plugins/org.eclipse.m2e.maven.runtime.slf4j.impl/StaticLoggerBinder.class]
SLF4J: Found binding in [file:/D:/Eclipse/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] -----< upes.devops:LAB_5 >-----
[INFO] Building LAB_5 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ LAB_5 ---
[INFO] Deleting E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.429 s
[INFO] Finished at: 2021-02-27T01:31:19+05:30
[INFO]
```

- ### INSTALL



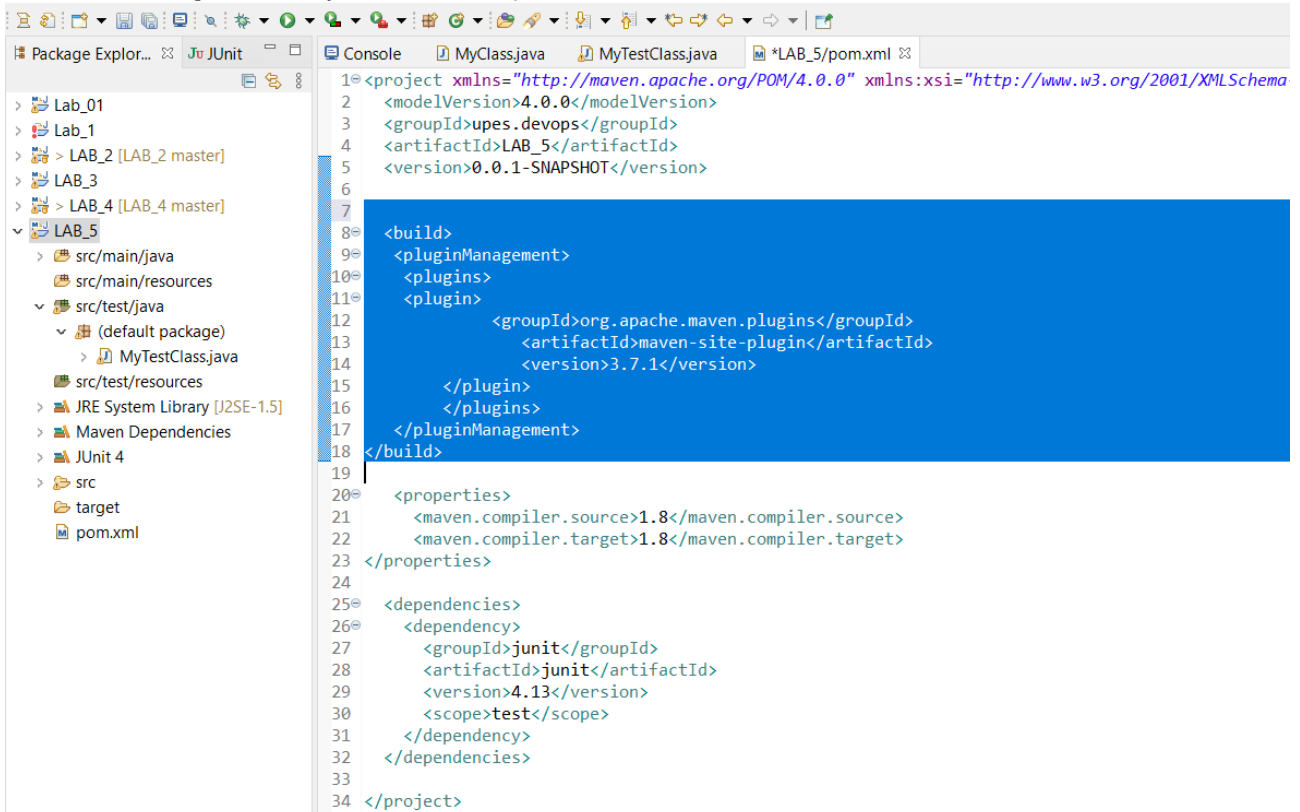
```
<terminated> LAB_5 (4) [Maven Build] C:\Users\Ayush Bansal\.p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_15.0.1.v20201027-0507\jre\bin\java.exe (27-Feb-2021, 1:31:38 am)
SLF4J: Found binding in [file:/D:/Eclipse/eclipse/configuration/org.eclipse.osgi/5/0/.cp/org/slf4j/impl/StaticLoggerBinder.class]
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] -----< upes.devops:LAB_5 >-----
[INFO] Building LAB_5 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ LAB_5 ---
[WARNING] Using platform encoding (Cp1252 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) @ LAB_5 ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ LAB_5 ---
[WARNING] Using platform encoding (Cp1252 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) @ LAB_5 ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ LAB_5 ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ LAB_5 ---
[INFO] Building jar: E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\target\LAB_5-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ LAB_5 ---
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\target\LAB_5-0.0.1-SNAPSHOT.jar to C:\Users\Ayush Bansal\.m2\repository\upes\devops\LAB_5\0.0.1-SNAPSHOT\LAB_5-0.0.1-SNAPSHOT.jar
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_5\pom.xml to C:\Users\Ayush Bansal\.m2\repository\upes\devops\LAB_5\0.0.1-SNAPSHOT\LAB_5-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 3.354 s
[INFO] Finished at: 2021-02-27T01:31:38+05:30
[INFO]
```

## EDIT THE POM.XML FILE WITH HIGHLIGHTED CODE

### 2. This code is used to run SITE goal...

Lab Work - LAB\_5/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help



The screenshot shows the Eclipse IDE interface. On the left, the Package Explorer displays the project structure for 'Lab\_01', including 'Lab\_1', 'Lab\_2 [LAB\_2 master]', 'Lab\_3', 'Lab\_4 [LAB\_4 master]', and 'LAB\_5'. The 'LAB\_5' folder is expanded, showing 'src/main/java', 'src/main/resources', 'src/test/java', and 'src/test/resources'. The 'src/test/java' folder contains '(default package)' and 'MyTestClass.java'. The 'src/test/resources' folder contains 'JRE System Library [J2SE-1.5]', 'Maven Dependencies', 'JUnit 4', and 'pom.xml'. The main editor shows the 'pom.xml' file with the following XML code:

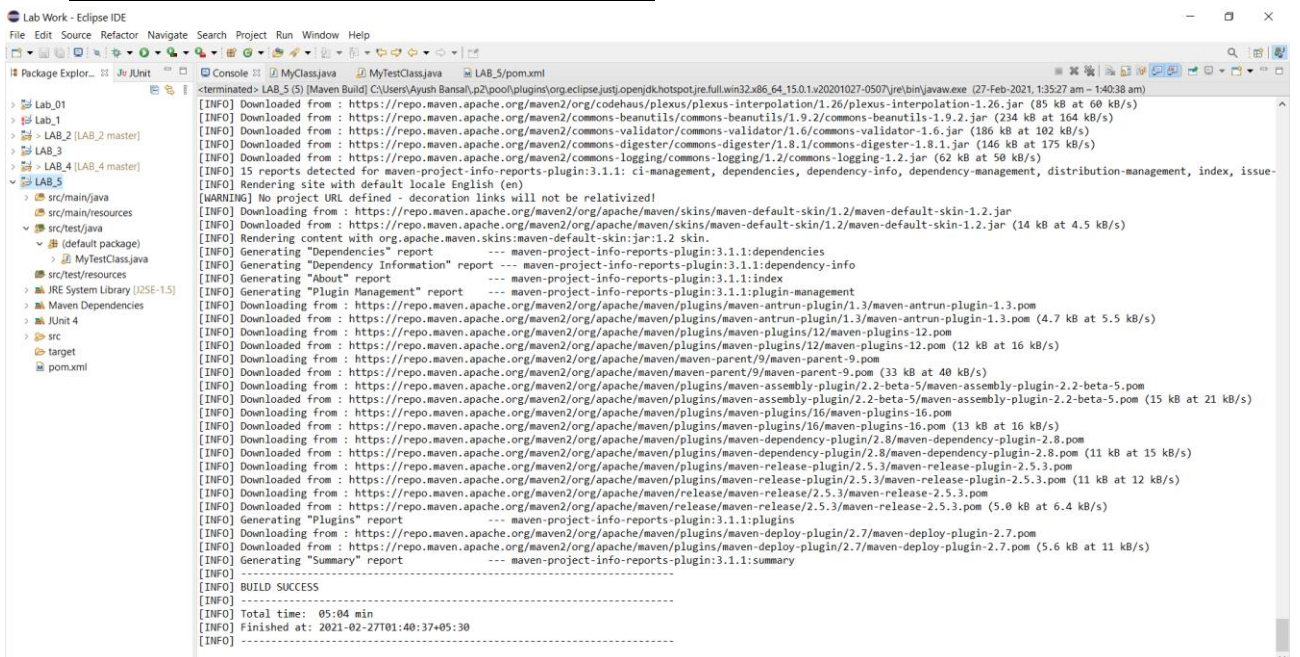
```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>upes.devops</groupId>
    <artifactId>LAB_5</artifactId>
    <version>0.0.1-SNAPSHOT</version>

    <build>
        <pluginManagement>
            <plugins>
                <plugin>
                    <groupId>org.apache.maven.plugins</groupId>
                    <artifactId>maven-site-plugin</artifactId>
                    <version>3.7.1</version>
                </plugin>
            </plugins>
        </pluginManagement>
    </build>

    <properties>
        <maven.compiler.source>1.8</maven.compiler.source>
        <maven.compiler.target>1.8</maven.compiler.target>
    </properties>

    <dependencies>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>4.13</version>
            <scope>test</scope>
        </dependency>
    </dependencies>
</project>
```

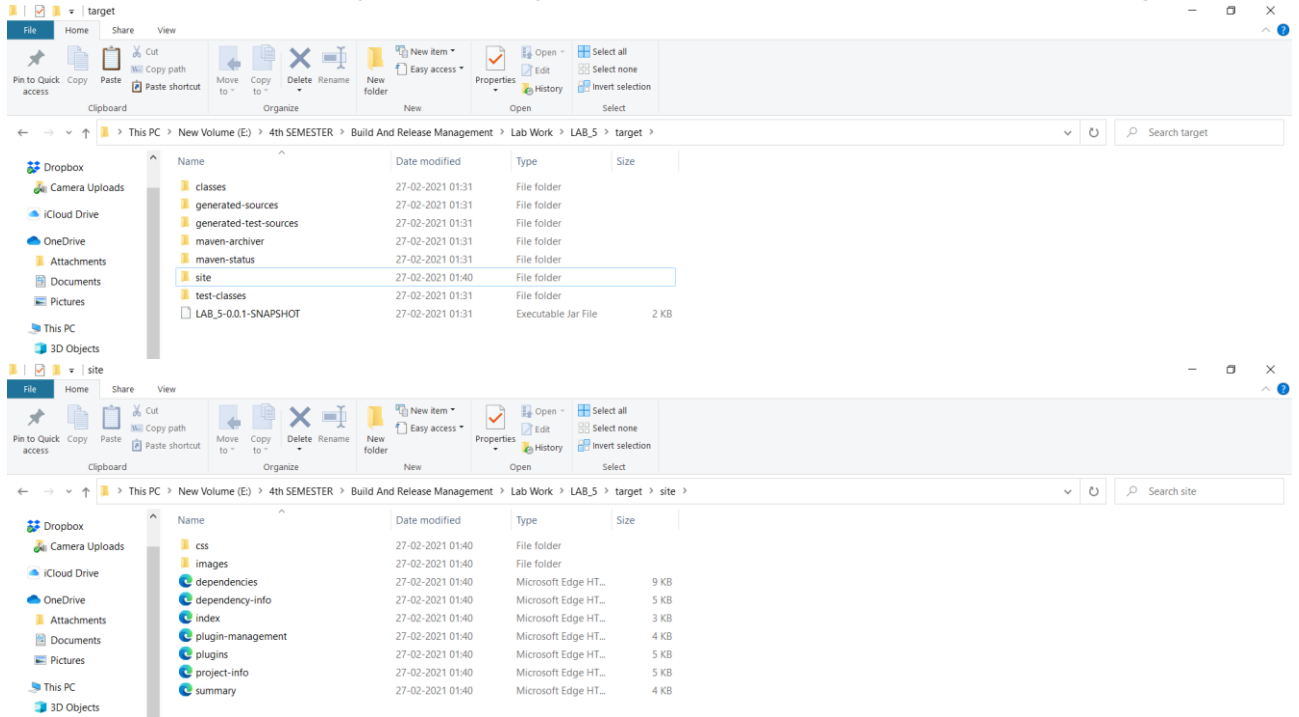
## RUN THE MAVEN GOAL: SITE



The screenshot shows the Eclipse IDE interface with the Maven console output for the 'maven-site-plugin' goal. The console output is as follows:

```
<terminated> LAB_5 (5) [Maven Build] C:\Users\Ayush Bansal\p2\pool\plugins\org.eclipse.jst.j2ee\org.eclipse.jst.j2ee.runtime\bin\javaw.exe (27-Feb-2021, 1:35:27 am - 1:40:38 am)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.26/plexus-interpolation-1.26.jar (85 kB at 60 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/skins/maven-default-skin/1.2/maven-default-skin-1.2.jar (14 kB at 4.5 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-antrun-plugin-1.3.pom (4.7 kB at 5.5 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/12/maven-plugins-12.pom (12 kB at 16 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-parent/9/maven-parent-9.pom (33 kB at 40 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.pom (15 kB at 21 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/16/maven-plugins-16.pom (13 kB at 16 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.pom (11 kB at 15 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.pom (11 kB at 12 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.pom (5.0 kB at 6.4 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom (5.6 kB at 11 kB/s)
[INFO] Generating "Summary" report
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] Total time: 05:04 min
[INFO] Finished at: 2021-02-27T01:40:37+05:30
[INFO] -----
```

- After running the **SITE** goal, a 'Site' folder will be created in target folder.



## ? BROWSING INTO THE HTML FILES.

← → ↻ File | E:/4th%20SEMESTER/Build%20And%20Release%20Management/Lab%20Work/LAB\_5/target/site/index.html

# LAB\_5

Last Published: 2021-02-27 | Version: 0.0.1-SNAPSHOT LAB\_5

**Project Documentation**

- Project Information
- Dependencies
- Dependency Information
- About
- Plugin Management
- Plugins
- Summary

## About LAB\_5

There is currently no description associated with this project.

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← → ↻ File | E:/4th%20SEMESTER/Build%20And%20Release%20Management/Lab%20Work/LAB\_5/target/site/dependencies.html

**Project Documentation**

- Dependencies
- Dependency Information
- Plugin Management
- Plugins
- Summary

## Project Dependencies

**test**

The following is a list of test dependencies for this project. These dependencies are only required to compile and run unit tests for the application:

GroupId	ArtifactId	Version	Type	License
junit	junit	4.13	jar	Eclipse Public License 1.0

## Project Transitive Dependencies

The following is a list of transitive dependencies for this project. Transitive dependencies are the dependencies of the project dependencies.

**test**

The following is a list of test dependencies for this project. These dependencies are only required to compile and run unit tests for the application:

GroupId	ArtifactId	Version	Type	License
org.hamcrest	hamcrest-core	1.3	jar	New BSD License

## Project Dependency Graph

**Dependency Tree**

- ipes.devs:LAB\_5:0.0.1-SNAPSHOT
  - junit:junit:4.13 (test)
    - org.hamcrest:hamcrest-core:1.3 (test)

## Licenses

Unknown: LAB\_5  
 Eclipse Public License 1.0: JUnit  
 New BSD License: Hamcrest Core

## Dependency File Details

File Name	Size	Lines	Classes	Packages	Java Version	Debug Information
junit-4.13.jar	381.9 KB	287	348	32	1.5	Yes
hamcrest-core-1.3.jar	48 KB	52	45	3	1.5	Yes
Total	429.9 KB	439	393	35	1.5	2
test: 2	test: 429.9 KB	test: 439	test: 393	test: 35	-	test: 2

# LAB\_5

Last Published: 2021-02-27 | Version: 0.0.1-SNAPSHOT

LAB\_5

**Project Documentation**

▼ Project Information

Dependencies

Dependency Information

About

Plugin Management









**Plugins**

Summary

Built by



## Project Build Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	<a href="#">maven-clean-plugin</a> 	2.5
org.apache.maven.plugins	<a href="#">maven-compiler-plugin</a> 	3.1
org.apache.maven.plugins	<a href="#">maven-deploy-plugin</a> 	2.7
org.apache.maven.plugins	<a href="#">maven-install-plugin</a> 	2.4
org.apache.maven.plugins	<a href="#">maven-jar-plugin</a> 	2.4
org.apache.maven.plugins	<a href="#">maven-resources-plugin</a> 	2.6
org.apache.maven.plugins	<a href="#">maven-site-plugin</a> 	3.7.1
org.apache.maven.plugins	<a href="#">maven-surefire-plugin</a> 	2.12.4

## Project Report Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	<a href="#">maven-project-info-reports-plugin</a> 	3.1.1

