BUILD AND RELEASE MANAGEMENT LAB FILE
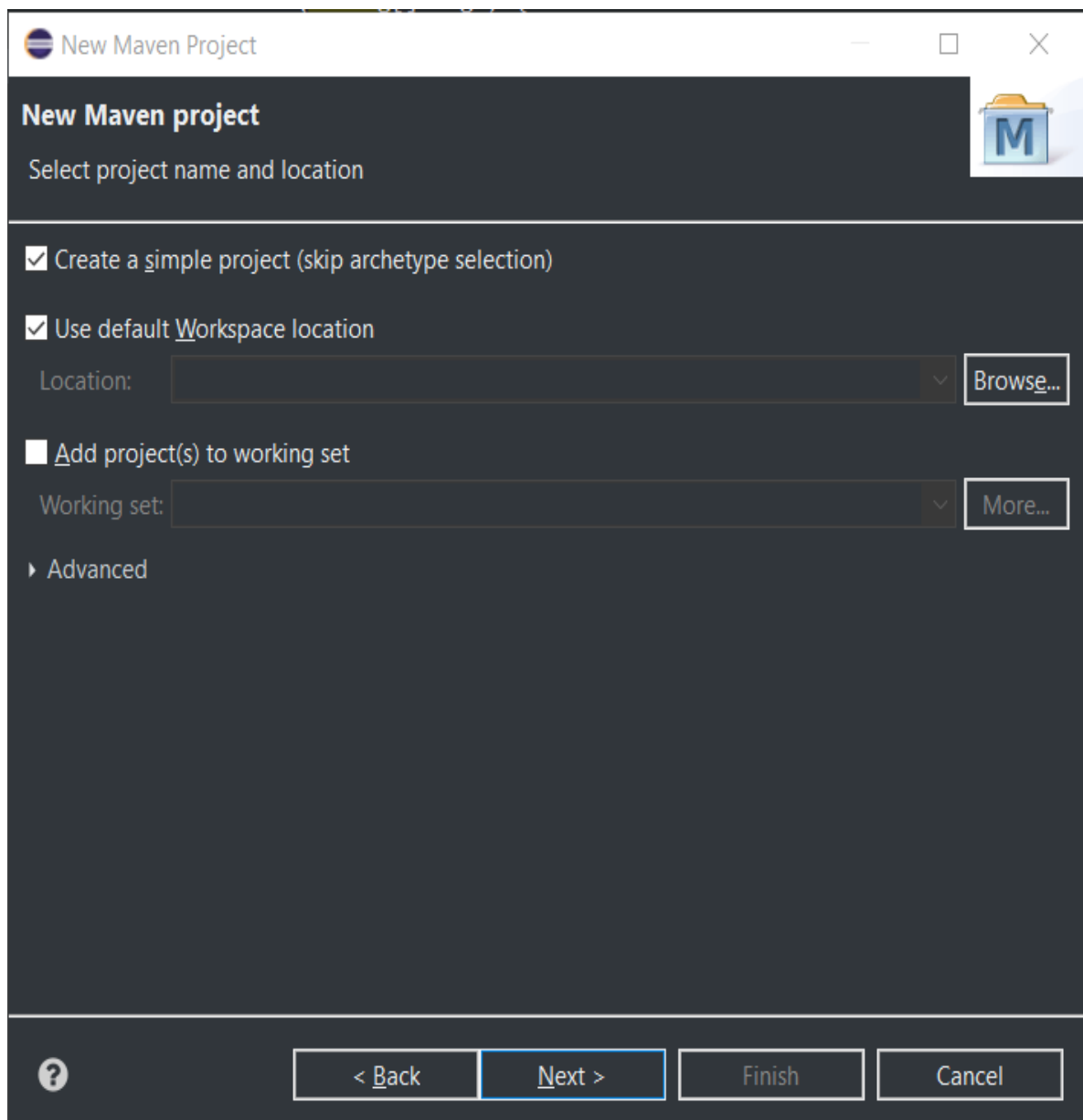
Experiment 5

AIM :

1.To create a Maven project and create a Java class in it.

2.Write a simple program in Java class.

3.Edit 'pom.xml' file to include Maven site plugin.

4.Run install command and then site command in the Maven project.

SOLUTION :

- Create a Maven project.

- Create a Java class in it.

- Program in Java class with output.


```java
public class TestSiteGoal {

    public static void goal()
    {
        System.out.println("Print site goal");
    }

    public static void main(String[] args) {
        System.out.println("This is to test mvn site");
        goal();
    }
}
```
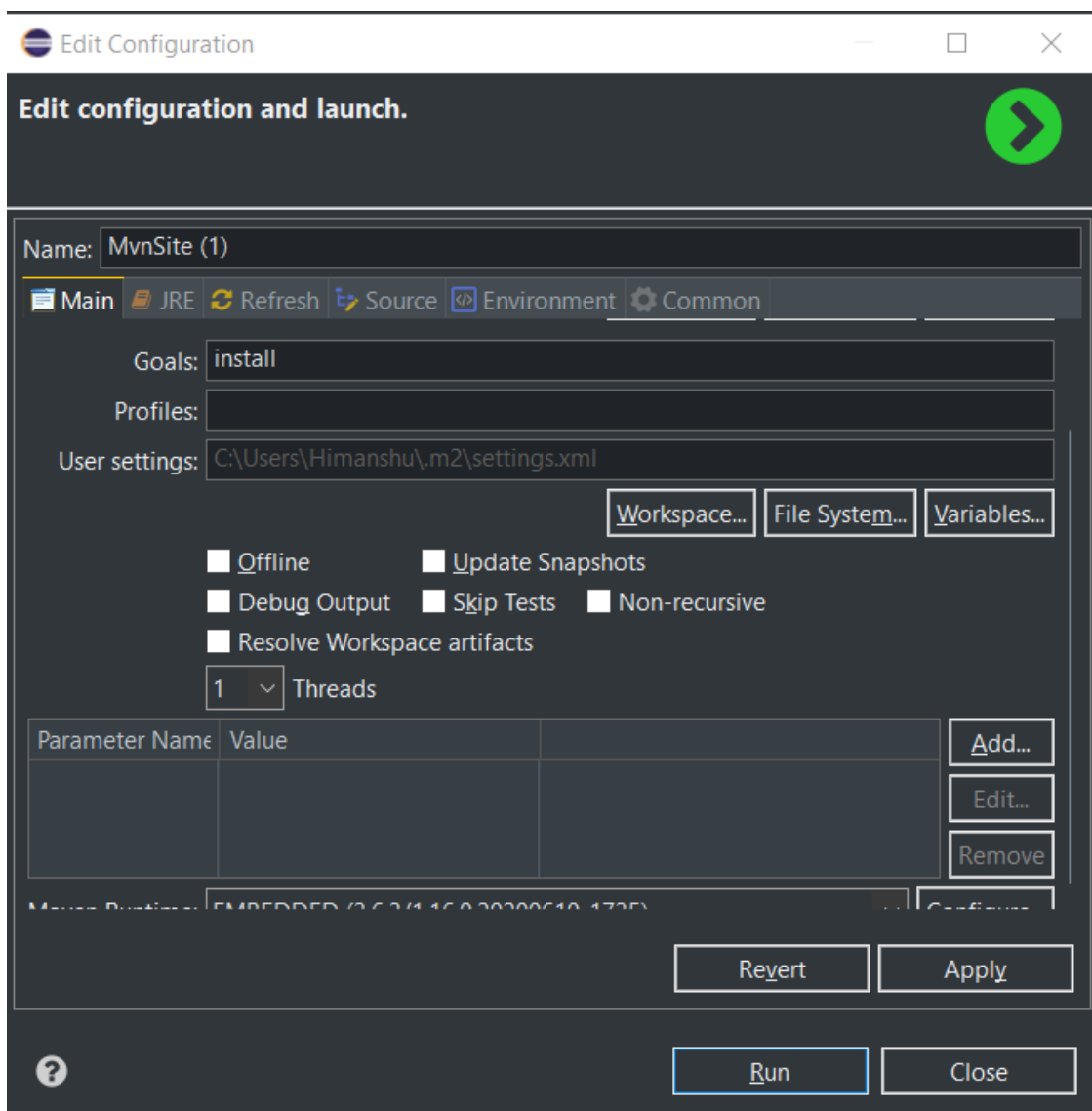
Console

<terminated> TestSiteGoal [Java Application] C:\Program Files (x86)\eclipse\plugins\o

This is to test mvn site
Print site goal

- Editing 'pom.xml' to add Maven site plugin.

```
J TestSiteGoal.java        P MvnSite/pom.xml ⊠
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="h
2     <modelVersion>4.0.0</modelVersion>
3     <groupId>document</groupId>
4     <artifactId>MvnSite</artifactId>
5     <version>0.0.1-SNAPSHOT</version>
6     <properties>
7       <maven.compiler.source>1.8</maven.compiler.source>
8       <maven.compiler.target>1.8</maven.compiler.target>
9     </properties>
10  <build>
11  <pluginManagement>
12  <plugins>
13  <plugin>
14      <groupId>org.apache.maven.plugins</groupId>
15      <artifactId>maven-site-plugin</artifactId>
16      <version>3.7.1</version>
17  </plugin>
18  </plugins>
19  </pluginManagement>
20  </build>
21 </project>
```
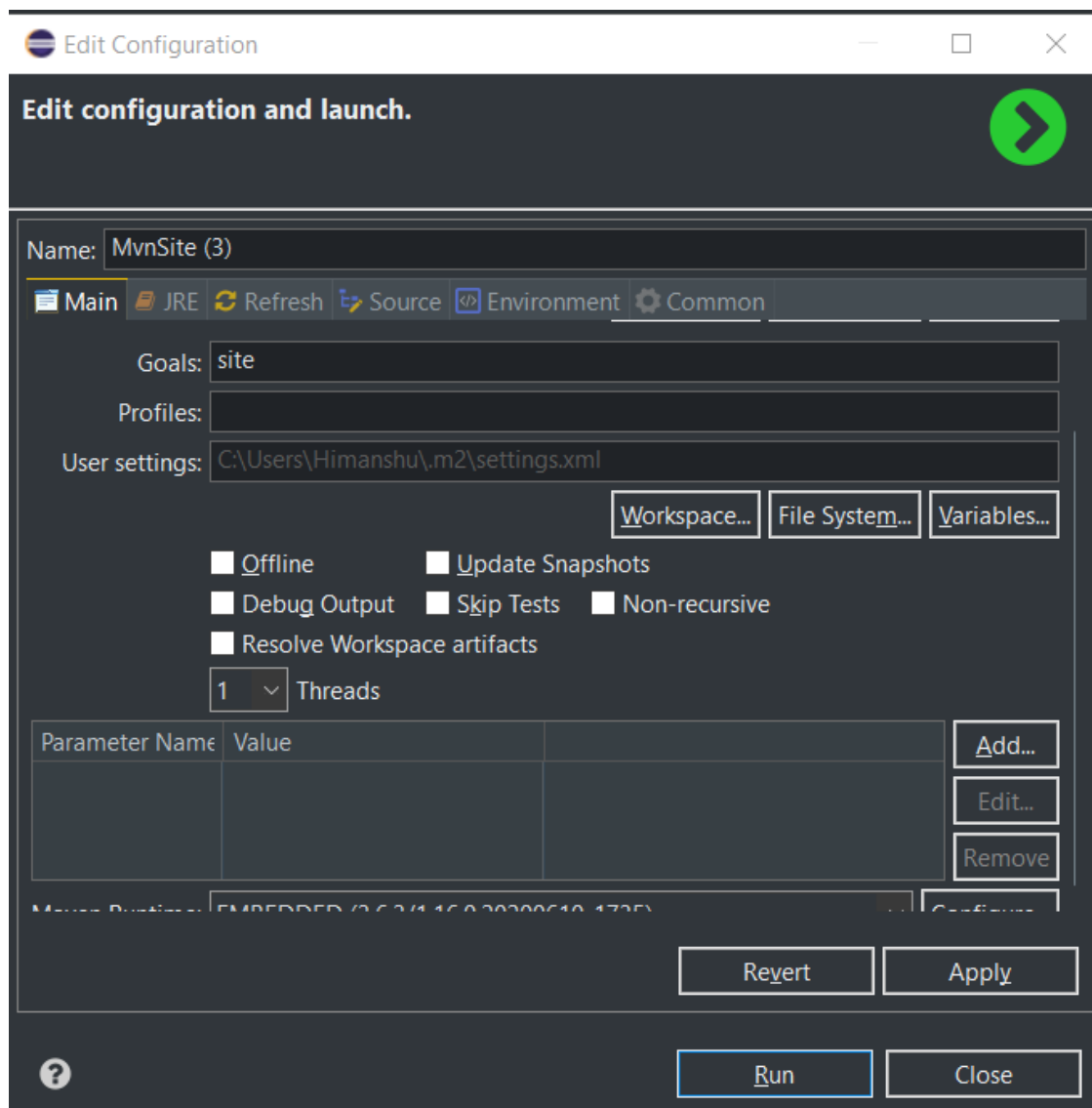
- Running the **install** command for the Maven project.

```
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ MvnSite ---
[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 C:\Users\Himanshu\eclipse-workspace\MvnSite\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ MvnSite ---
[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) @ MvnSite ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ MvnSite ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ MvnSite ---
[INFO] Building jar: C:\Users\Himanshu\eclipse-workspace\MvnSite\target\MvnSite-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ MvnSite ---
[INFO] Installing C:\Users\Himanshu\eclipse-workspace\MvnSite\target\MvnSite-0.0.1-SNAPSHOT.jar to C:\Users\Himanshu\
[INFO] Installing C:\Users\Himanshu\eclipse-workspace\MvnSite\pom.xml to C:\Users\Himanshu\.m2\repository\document\Mv
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  3.196 s
[INFO] Finished at: 2021-02-25T10:06:07+05:30
[INFO] ------------------------------------------------------------------------
```

- Running the **site** command for the Maven project.

- The **.html** files generated in site folder.

- The webpage generated in **.html** files.

MvnSite

Project Documentation

▼ Project Information
   Dependency
   Information
   About
   Plugin Management
   Plugins
   Summary

Built by:
Maven

Project Build Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	maven-clean-plugin	2.5
org.apache.maven.plugins	maven-compiler-plugin	3.1
org.apache.maven.plugins	maven-deploy-plugin	2.7
org.apache.maven.plugins	maven-install-plugin	2.4
org.apache.maven.plugins	maven-jar-plugin	2.4
org.apache.maven.plugins	maven-resources-plugin	2.6
org.apache.maven.plugins	maven-site-plugin	3.7.1
org.apache.maven.plugins	maven-surefire-plugin	2.12.4

Project Report Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	maven-project-info-reports-plugin	3.1.1

MvnSite

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Built by:
Maven

Dependency Information

Apache Maven

```
<dependency>
  <groupId>document</groupId>
  <artifactId>MvnSite</artifactId>
  <version>0.0.1-SNAPSHOT</version>
</dependency>
```

Apache Buildr

```
'document:MvnSite:jar:0.0.1-SNAPSHOT'
```

Apache Ivy

```
<dependency org="document" name="MvnSite" rev="0.0.1-SNAPSHOT">
  <artifact name="MvnSite" type="jar" />
</dependency>
```

Groovy Grape

```
@Grapes(
@Grab(group='document', module='MvnSite', version='0.0.1-SNAPSHOT')
)
```

MvnSite

Built by: **maven**

Project Summary

Project Information

Field	Value
Name	MvnSite
Description	-
Homepage	-

Project Organization

This project does not belong to an organization.

Build Information

Field	Value
GroupId	document
ArtifactId	MvnSite
Version	0.0.1-SNAPSHOT
Type	jar
Java Version	1.8