

# **Build and Release Management Lab Experiment 8**

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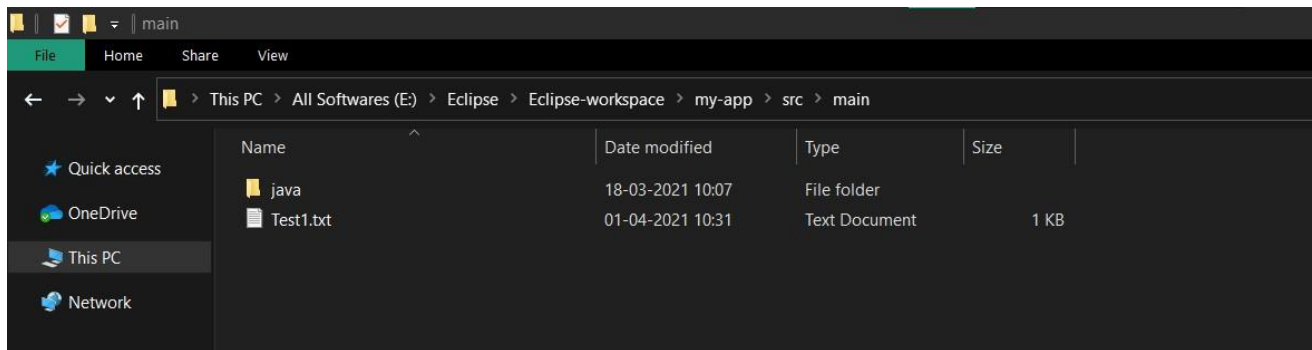
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**Aim:** Create a maven project using Build Profile.

**Step 1:** Create simple maven project using CLI or Eclipse IDE and add a text file in the “\src\main” folder of the project.



**Step 2:** Now open the “pom.xml” file of the project and add the following Build Profile:

```
<profiles>
  <profile>
    <id>coping</id>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-antrun-plugin</artifactId>
          <version>1.1</version>
          <executions>
            <execution>
              <phase>test</phase>
              <goals>
                <goal>run</goal>
              </goals>
              <configuration>
                <tasks>
                  <echo>Copied Test1.txt</echo>
                  <copy file="src/main/Test1.txt"
                    tofile="src/Test1.txt"/>
                </tasks>
              </configuration>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
  </profile>
</profiles>
```

**Step 2:** Now open the CLI, go the project folder containing the pom.xml and execute the following mvn command.

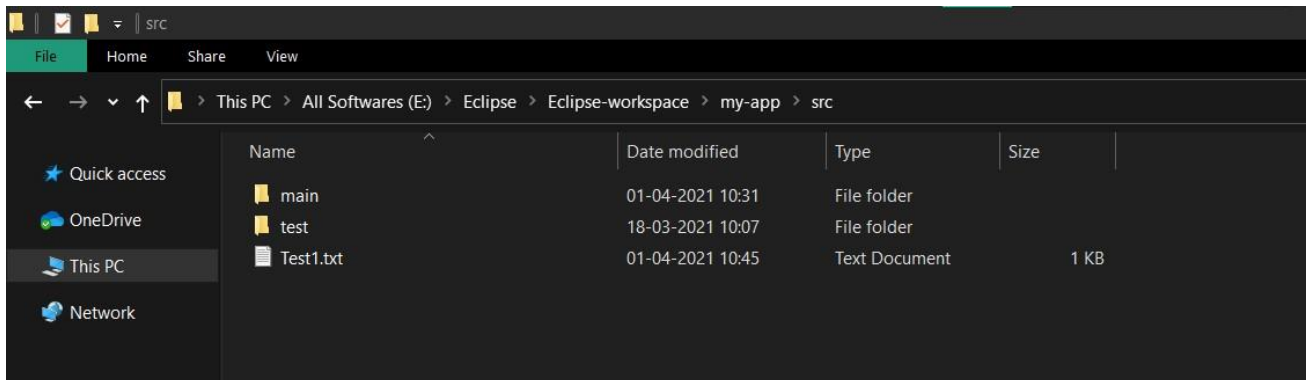
mvn test -Pcopying

```
C:\WINDOWS\system32\cmd.exe
C:\Users\aryan>E:

E:\>cd E:\Eclipse\Eclipse-workspace\my-app

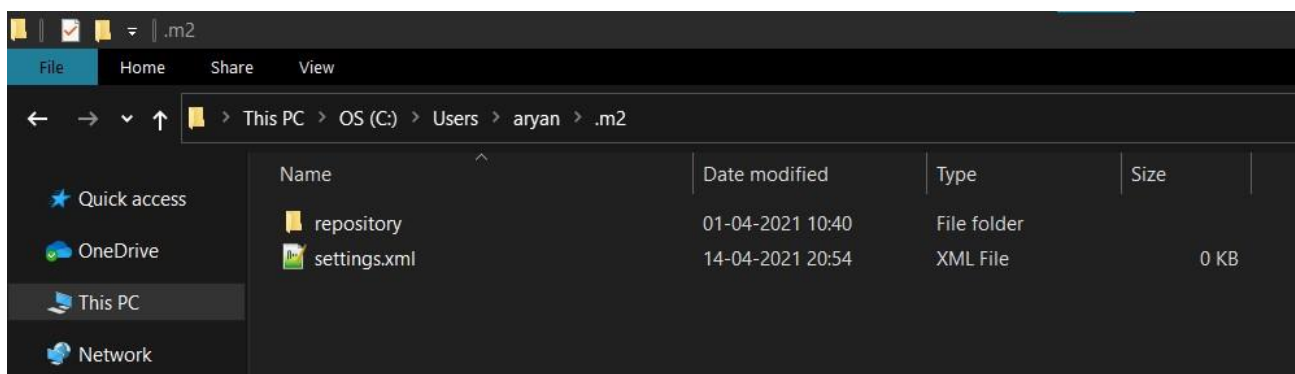
E:\Eclipse\Eclipse-workspace\my-app>mvn test -Pcopying
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\Eclipse\Eclipse-workspace\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\Eclipse\Eclipse-workspace\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.051 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ my-app ---
[INFO] Executing tasks
[echo] Copied Test1.txt
[copy] Copying 1 file to E:\Eclipse\Eclipse-workspace\my-app\src
[INFO] Executed tasks
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO]
[INFO] Total time: 3.314 s
[INFO] Finished at: 2021-04-01T10:45:54+05:30
[INFO]
[INFO] -----
E:\Eclipse\Eclipse-workspace\my-app>
```

**Step 3:** Now open the “\src” folder of the project and we can find the text file we created in “\src\main” folder copied into “\src” folder.



**Step 4:** We can also add Active Profiles in “settings.xml” file in which is present in C:\Users\<user\_name>\.m2 folder. Open the file and add the following active profile:

```
<activeProfiles>
    <activeProfile>copying</activeProfile>
</activeProfiles>
```



Now run we can run the above mvn command without the help of the argument -P<profile> and simply write the following:

```
mvn test
```

**Result:** Hence we successfully created and build a maven project with Build Profiles.