

Q3

1. Added Jar plugin in pom.xml



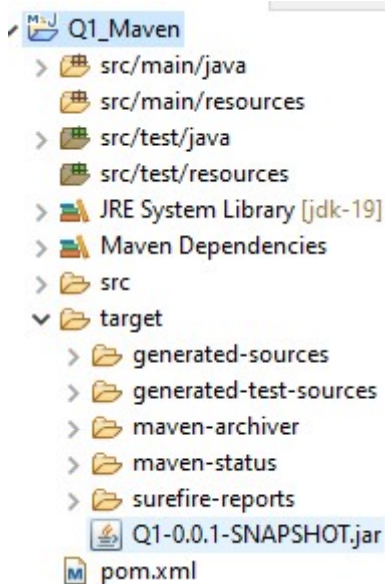
```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
2   <modelVersion>4.0.0</modelVersion>
3   <groupId>MavenDemo</groupId>
4   <artifactId>Q1</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
11   <dependencies>
12     <dependency>
13       <groupId>junit</groupId>
14       <artifactId>junit</artifactId>
15       <version>4.12</version>
16       <scope>test</scope>
17     </dependency>
18   </dependencies>
19   <build>
20     <plugins>
21       <plugin>
22         <!-- Build an executable JAR -->
23         <groupId>org.apache.maven.plugins</groupId>
24         <artifactId>maven-jar-plugin</artifactId>
25         <version>3.1.0</version>
26         <configuration>
27           <archive>
28             <manifest>
29               <mainClass>Q1.HelloWorld</mainClass>
30             </manifest>
31           </archive>
32         </configuration>
33       </plugin>
34     </plugins>
35   </build>
36
37 </project>
```

2. Run Maven Install Command to build JAR file

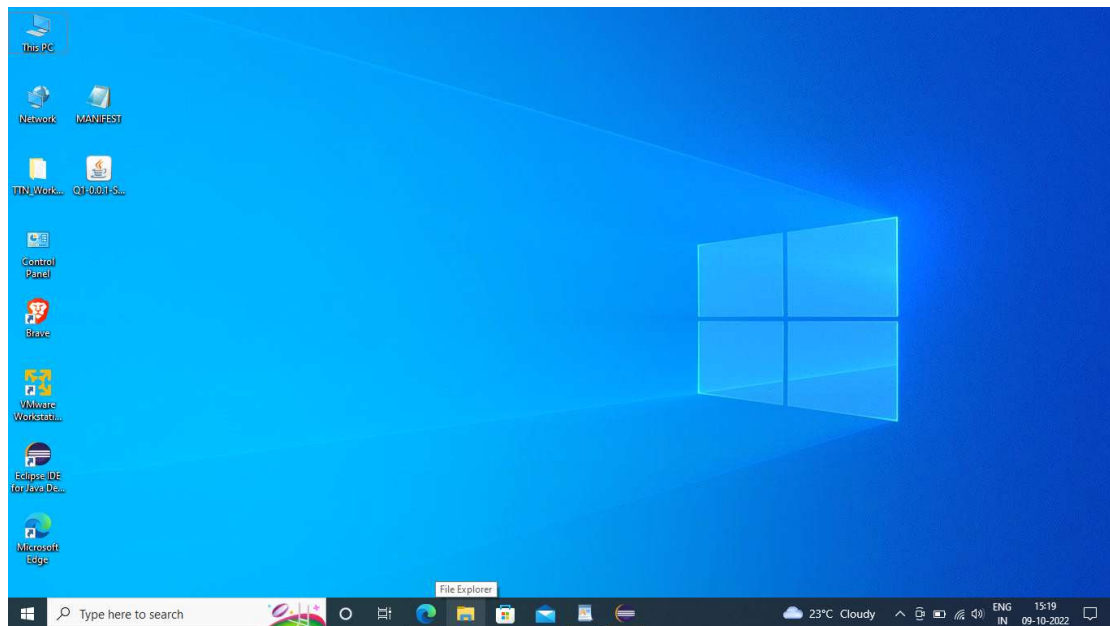
```

[INFO] Scanning for projects...
[INFO] -----< MavenDemo:Q1 >-----
[INFO] Building Q1 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ Q1 ---
[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) @ Q1 ---
[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 D:\Eclipse Workspace\Java Assignments\Dependency Management Using Maven\Q1_Maven\target\classes
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ Q1 ---
[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) @ Q1 ---
[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 D:\Eclipse Workspace\Java Assignments\Dependency Management Using Maven\Q1_Maven\target\test-classes
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ Q1 ---
[INFO] Surefire report directory: D:\Eclipse Workspace\Java Assignments\Dependency Management Using Maven\Q1_Maven\target\surefire-reports

```



3. Copied the JAR file to Desktop



4. Open Cmd and run commands

>jar xf Q1-0.0.1-SNAPSHOT.jar(use to extract the JAR and create MANIFEST file)

>java -jar Q1-0.0.1-SNAPSHOT.jar.....(run the JAR file)

