

6. Create a Maven Project and implement all the programs in Maven Project and add Apache POI dependency in pom.xml and run all the programs using Maven Commands

Installed Maven:

```
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Vajintha C>java -version
java version "20.0.2" 2023-07-18
Java(TM) SE Runtime Environment (build 20.0.2+9-78)
Java HotSpot(TM) 64-Bit Server VM (build 20.0.2+9-78, mixed mode, sharing)

C:\Users\Vajintha C>mvn -version
Apache Maven 3.9.4 (dfbb324ad4a7c8fb0bf182e6d91b0ae20e3d2dd9)
Maven home: C:\Program Files\apache-maven-3.9.4
Java version: 20.0.2, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-20
Default locale: en_US, platform encoding: UTF-8
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
```

Navigated to corresponding folder:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran>cd "Que 06 Maven"
```

Used below command to create a maven project:

mvn archetype:generate -DgroupId=Question6 -DartifactId=que06 -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven>mvn archetype:generate -DgroupId=Question6
-DartifactId=que06 -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom (5.3 kB at 3.2
kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom (9.9 kB at 29 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/35/maven-parent-35.pom
```

```
.
.
.

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (3.4 kB at 16 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart-1.0.jar
(4.3 kB at 11 kB/s)
[INFO] -----
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven
[INFO] Parameter: package, Value: Question6
[INFO] Parameter: groupId, Value: Question6
[INFO] Parameter: artifactId, Value: que06
[INFO] Parameter: packageName, Value: Question6
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Q
ue 06 Maven\que06
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:31 min
[INFO] Finished at: 2023-09-30T20:49:48+05:30
[INFO] -----
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven>
```

> Desktop > SDet > SDet-Basic Techademy > Comprehensive Assignment - Vajintha Chandran > Que 06 Maven > que06 >

Name	Date modified	Type	Size
src	9/30/2023 8:49 PM	File folder	
pom.xml	9/30/2023 8:49 PM	xmlfile	1 KB






Default pom file:







```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <groupId>Question6</groupId>
6   <artifactId>que06</artifactId>
7   <packaging>jar</packaging>
8   <version>1.0-SNAPSHOT</version>
9   <name>que06</name>
10  <url>http://maven.apache.org</url>
11  <dependencies>
12    <dependency>
13      <groupId>junit</groupId>
14      <artifactId>junit</artifactId>
15      <version>3.8.1</version>
16      <scope>test</scope>
17    </dependency>
18  </dependencies>
19 </project>
```

Added below dependencies into pom.xml file:

```
C: > Users > Vajintha C > Desktop > SDET > SDET-Basic Techademy > Comprehensive Assignment - Vajintha Chandran > Que 06 Maven > que06 > pom.xml
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/maven-v4_0_0.xsd">
3      <modelVersion>4.0.0</modelVersion>
4      <groupId>Question6</groupId>
5      <artifactId>que06</artifactId>
6      <packaging>jar</packaging>
7      <version>1.0-SNAPSHOT</version>
8      <name>que06</name>
9      <url>http://maven.apache.org</url>
10     <build>
11         <plugins>
12             <plugin>
13                 <artifactId>maven-compiler-plugin</artifactId>
14                 <version>3.1</version>
15                 <configuration>
16                     <source>1.8</source>
17                     <target>1.8</target>
18                 </configuration>
19             </plugin>
20             <plugin>
21                 <groupId>org.apache.maven.plugins</groupId>
22                 <artifactId>maven-surefire-plugin</artifactId>
23                 <version>2.16</version>
24                 <configuration>
25                     <suiteXmlFiles>
26                         <suiteXmlFile>testng.xml</suiteXmlFile>
27                     </suiteXmlFiles>
28                 </configuration>
29             </plugin>
30         </plugins>
31     </build>
32     <dependencies>
33         <dependency>
34             <groupId>org.seleniumhq.selenium</groupId>
35             <artifactId>selenium-java</artifactId>
36             <version>4.13.0</version>
37         </dependency>
38         <dependency>
39             <groupId>org.testng</groupId>
40             <artifactId>testng</artifactId>
41             <version>7.8.0</version>
42             <scope>compile</scope>
43         </dependency>
44         <dependency>
45             <groupId>org.apache.poi</groupId>
46             <artifactId>poi</artifactId>
47             <version>5.2.4</version>
48         </dependency>
49         <dependency>
50             <groupId>org.apache.poi</groupId>
51             <artifactId>poi-ooxml</artifactId>
52             <version>5.2.4</version>
53         </dependency>
54     </dependencies>
55 </project>
```

Created below java files in the “src” folder and added the code. And added the testing.xml:

Desktop > SDET > SDET-Basic Techademy > Comprehensive Assignment - Vajintha Chandran > Que 06 Maven > que06 > src > main > java > Question6				
Name	Date modified	Type	Size	
 Basic_utilities_TestNG	10/1/2023 12:15 AM	Java Source File	2 KB	
 Question3_TestNG	9/30/2023 10:02 PM	Java Source File	2 KB	
 Question4_TestNG	9/30/2023 10:02 PM	Java Source File	2 KB	
 ReadAnWriteDate	10/1/2023 2:53 AM	Java Source File	3 KB	
 StudentDetails	9/29/2023 11:33 AM	Microsoft Excel W...	9 KB	

Desktop > SDET > SDET-Basic Techademy > Comprehensive Assignment - Vajintha Chandran > Que 06 Maven > que06 >				
Name	Date modified	Type	Size	
 src	10/1/2023 1:40 AM	File folder		
 target	10/1/2023 3:18 AM	File folder		
 chromedriver	9/29/2023 1:53 PM	Application	16,183 KB	
 pom.xml	10/1/2023 3:17 AM	xmlfile	2 KB	
 StudentDetails	9/29/2023 11:33 AM	Microsoft Excel W...	9 KB	
 testng.xml	10/1/2023 12:28 AM	xmlfile	1 KB	

Navigated inside of the project folder:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven>cd que06
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>|
```

Used mvn validate command:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>mvn validate
[INFO] Scanning for projects...
[INFO]
[INFO] -----< Question6:que06 >-----
[INFO] Building que06 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time:  0.122 s
[INFO] Finished at: 2023-10-01T00:44:35+05:30
[INFO] -----

C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>|
```

Used mvn compile command:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>mvn compile
[INFO] Scanning for projects...
[INFO]
[INFO] -----< Question6:que06 >-----
[INFO] Building que06 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom (8.2 kB at 8.3 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom (8.1 kB at 42 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom (48 kB at 142 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom (21 kB at 113 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.jar (31 kB at 161 kB/s)
.
.
.

[WARNING] /C:/Users/Vajintha C/Desktop/SDET/SDET-Basic Techademy/Comprehensive Assignment - Vajintha Chandran/Que 06 Maven/que06/src/main/java/Question6/Re
adAnWriteDate.java: Recompile with -Xlint:unchecked for details.
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time:  02:50 min
[INFO] Finished at: 2023-10-01T00:49:11+05:30
[INFO] -----

C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>|
```

Used mvn test command:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< Question6:que06 >-----
[INFO] Building que06 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ que06 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\
que06\src\main\resources
[INFO]
[INFO] --- compiler:3.1:compile (default-compile) @ que06 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ que06 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\
que06\src\test\resources
[INFO]
[INFO] --- compiler:3.1:testCompile (default-testCompile) @ que06 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- surefire:2.16:test (default-test) @ que06 ---
[INFO] No tests to run.
[INFO] Surefire report directory: C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06\tar
get\surefire-reports

T E S T S

Running TestSuite
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger to log to the console...|
```

```
Oct 01, 2023 12:53:04 AM org.openqa.selenium.remote.http.WebSocket$Listener onError
WARNING: Connection reset
java.net.SocketException: Connection reset
    at java.base/sun.nio.ch.SocketChannelImpl.throwConnectionReset(SocketChannelImpl.java:401)
    at java.base/sun.nio.ch.SocketChannelImpl.read(SocketChannelImpl.java:434)
    at io.netty.buffer.PooledByteBuf.setBytes(PooledByteBuf.java:254)
    at io.netty.buffer.AbstractByteBuf.writeBytes(AbstractByteBuf.java:1132)
    at io.netty.channel.socket.nio.NioSocketChannel.doReadBytes(NioSocketChannel.java:357)
    at io.netty.channel.nio.AbstractNioByteChannel$NioByteUnsafe.read(AbstractNioByteChannel.java:151)
    at io.netty.channel.nio.NioEventLoop.processSelectedKey(NioEventLoop.java:788)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeysOptimized(NioEventLoop.java:724)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeys(NioEventLoop.java:650)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:562)
    at io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:997)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.base/java.lang.Thread.run(Thread.java:1623)
```

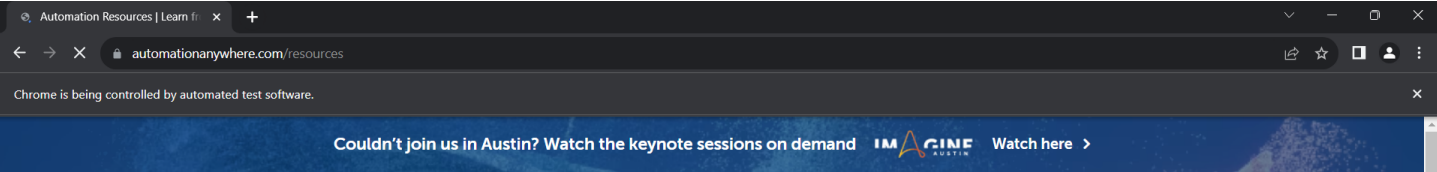
Tests run: 12, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 65.845 sec - in TestSuite

Results :

Tests run: 12, Failures: 0, Errors: 0, Skipped: 0

```
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:08 min
[INFO] Finished at: 2023-10-01T00:53:05+05:30
[INFO] -----
```

C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>



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Used [mvn package](#) command:

```
C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06> mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< Question6:que06 >-----
[INFO] Building que06 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.3.0/maven-jar-plugin-3.3.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.3.0/maven-jar-plugin-3.3.0.pom (6.8 kB at 4.6 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/37/maven-plugins-37.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/37/maven-plugins-37.pom (6.0 kB at 54.1 kB/s)
```

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.4.2/plexus-utils-3.4.2.jar (267 kB at 179 kB/s)
[INFO] Building jar: C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06\target\que06-1.0-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 01:01 min
[INFO] Finished at: 2023-10-01T00:55:55+05:30
[INFO]
```

C:\Users\Vajintha C\Desktop\SDET\SDET-Basic Techademy\Comprehensive Assignment - Vajintha Chandran\Que 06 Maven\que06>

Desktop > SDET > SDET-Basic Techademy > Comprehensive Assignment - Vajintha Chandran > Que 06 Maven > que06 > target				Search target	
Name	Date modified	Type	Size		
classes	10/1/2023 12:49 AM	File folder			
generated-sources	10/1/2023 12:48 AM	File folder			
maven-archiver	10/1/2023 12:55 AM	File folder			
maven-status	10/1/2023 12:48 AM	File folder			
surefire-reports	10/1/2023 12:55 AM	File folder			
que06-1.0-SNAPSHOT	10/1/2023 12:55 AM	Executable Jar File	9 KB		