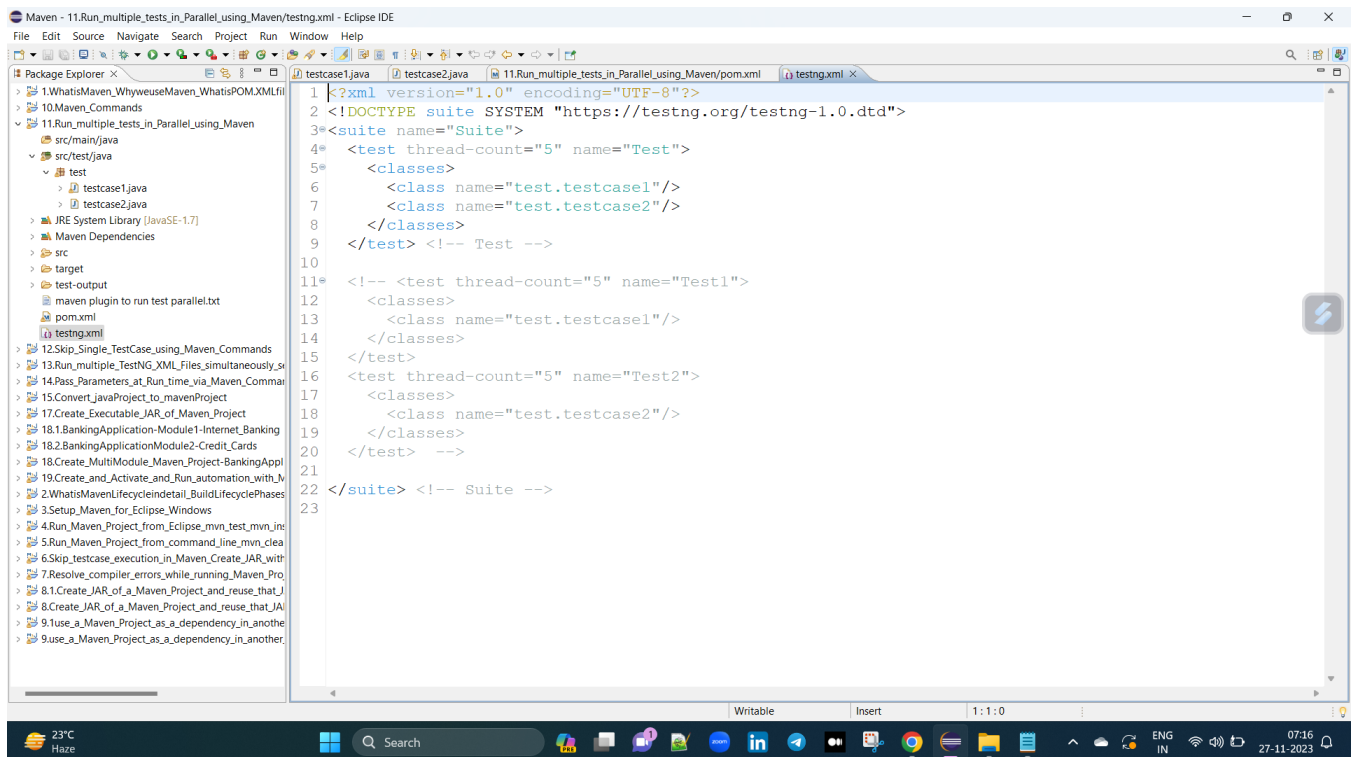


For example we have four test cases and we want to run it parallel then we give mvn test, then that four testcases will run one after another, by this parallel execution is not possible, to make it possible we want to give below plugin in pom.xml file.

Run multiple tests in Parallel using Maven pom.xml :

1. TestNG.xml file ni create chiyali aa tarvata manam surefire plugin ni add cheasukovali with some configurations tho.



2. Add Surefire plugin

For adding surefire plugin we search in google it will give default like this :

```
<project>
```

```
[...]
```

```
<build>
```

```
<pluginManagement>
```

```
<plugins>
```

```

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>3.2.2</version>
</plugin>
</plugins>
</pluginManagement>
</build>
[...]
</project>

```

in this plugin we want to do some modification by giving configuration plugin, e configuration plugin manam a rasuko vali under version.

```

<configuration>
  <suiteXmlFiles>testng.xml</suiteXmlFiles> --> edi testng.xml file create cheasina tarvata
  configurations lo "suiteXmlFiles" anea tags tho ela estamu, nduku antea tests run
  ieatapudu mana testng fiest testNG.xml nea tisukuntundi kabati.
  <properties>
    <property>
      <name>parallel</name>
      <value>classes</value> --> If we give classes, classes will run
      parallel, If we give methods, methods will run parallel, If we give tests, test will run parallel.
    </property>
    <property>
      <name>threadCount</name> --> threadCount estea motham
      browsers vakeasari open aavutai.
      <value>3</value>
    </property>
  </properties>

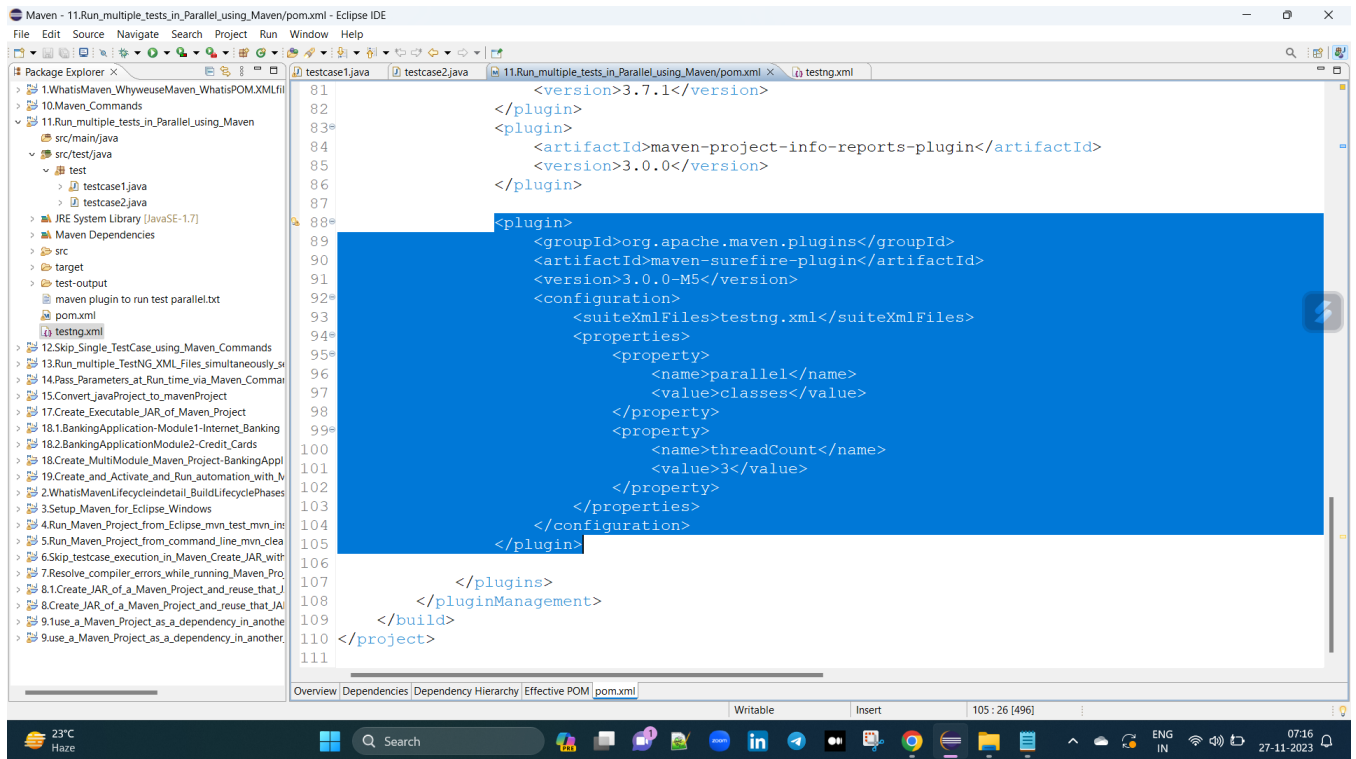
```

```
</configuration>
```

Main plugin :

```
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M5</version>
      <configuration>
        <suiteXmlFiles>testng.xml</suiteXmlFiles>
        <properties>
          <property>
            <name>parallel</name>
            <value>classes</value> --> If we give classes,
classes will run parallel, If we give methods, methods will run parallel, if we give
tests, tests will run
parallelly(tests lo pedhaga em difference undadu normal ga run aavutai testcases
vakati tarvata vakati).
          </property>
          <property>
            <name>threadCount</name>
            <value>3</value>
          </property>
        </properties>
      </configuration>
    </plugin>
  </plugins>
```

</build>



If we give classes, classes will run parallel. --> ani classes untea ani classes vakea sari browsers open aavutai.

Maven - 11.Run\_multiple\_tests\_in\_Parallel\_using\_Maven/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Package Explorer

- 1.WhatIsMaven\_WhyuseMaven\_WhatIsPOM.XML
- 10.Maven\_Commands
- 11.Run\_multiple\_tests\_in\_Parallel\_using\_Maven
  - src/main/java
  - src/test/java
    - test
      - testcase1.java
      - testcase2.java
  - JRE System Library [JavaSE-1.7]
  - Maven Dependencies
  - target
  - test-output
    - maven plugin to run test parallel.txt
    - pom.xml
    - testng.xml
- 12.Skip\_Single\_TestCase\_using\_Maven\_Commands
- 13.Run\_multiple\_TestNG\_XML\_Files\_simultaneously
- 14.Pass\_Parameters\_at\_Run\_time\_via\_Maven\_Commands
- 15.Convert\_JavaProject\_to\_mavenProject
- 17.Create\_Executable\_JAR\_of\_Maven\_Project
- 18.1.BankingApplicationModule1-Internet\_Banking
- 18.2.BankingApplicationModule2-Credit\_Cards
- 18.Create\_MultiModule\_Maven\_Project-BankingAppl
- 19.Create\_and\_Activate\_and\_Run\_automation\_with\_J
- 2.WhatIsMavenLifecycleinDetail\_BuildLifecyclePhases
- 3.Setup\_Maven\_for\_Eclipse\_Windows
- 4.Run\_Maven\_Project\_from\_Eclipse\_mvn\_test\_mvn\_line
- 5.Run\_Maven\_Project\_from\_command\_line\_mvn\_clean
- 6.Skip\_testcase\_execution\_in\_Maven\_Create\_JAR\_with
- 7.Resolve\_compiler\_errors\_while\_running\_Maven\_Pro
- 8.1.Create\_JAR\_of\_a\_Maven\_Project\_and\_reuse\_that\_J
- 8.Create\_JAR\_of\_a\_Maven\_Project\_and\_reuse\_that\_JA
- 9.1.use\_a\_Maven\_Project\_as\_a\_dependency\_in\_another
- 9.use\_a\_Maven\_Project\_as\_a\_dependency\_in\_another

testcase1.java

```
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```

testcase2.java

```

<version>3.7.1</version>
</plugin>
<plugin>
  <artifactId>maven-project-info-reports-plugin</artifactId>
  <version>3.0.0</version>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>3.0.0-M5</version>
  <configuration>
    <suiteXmlFiles>testng.xml</suiteXmlFiles>
    <properties>
      <property>
        <name>parallel</name>
        <value>classes</value>
      </property>
      <property>
        <name>threadCount</name>
        <value>3</value>
      </property>
    </properties>
  </configuration>
</plugin>

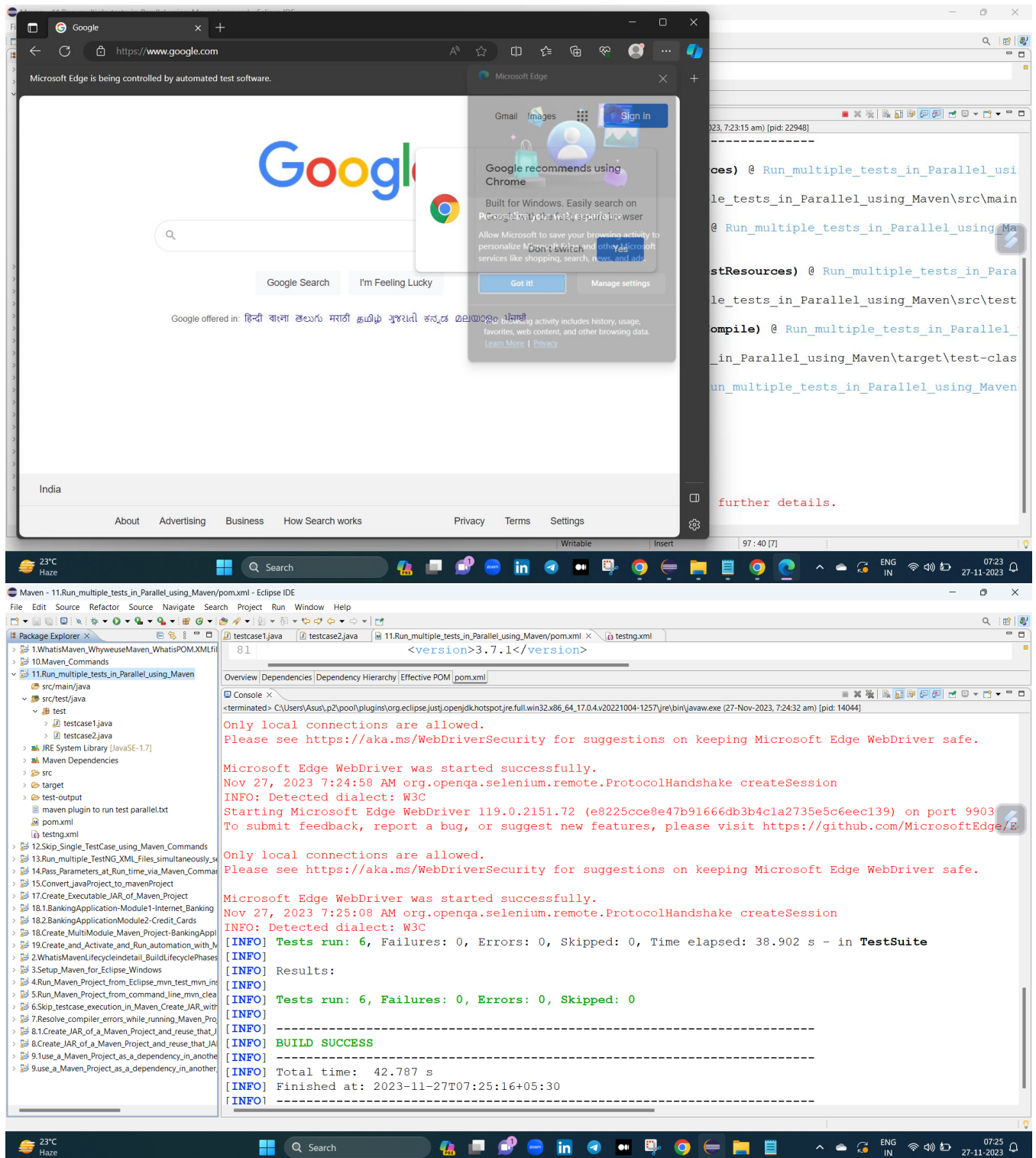
</plugins>
</pluginManagement>
</build>
</project>
```

testng.xml

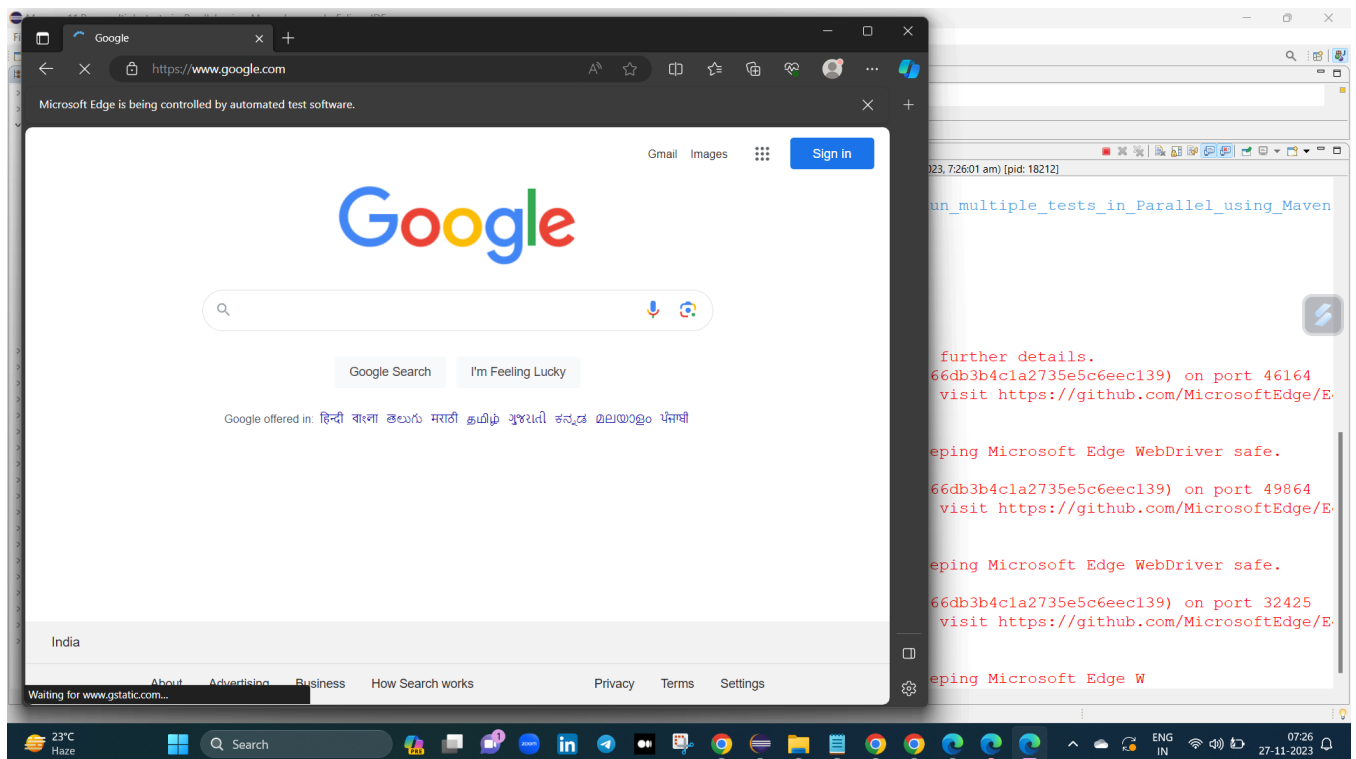
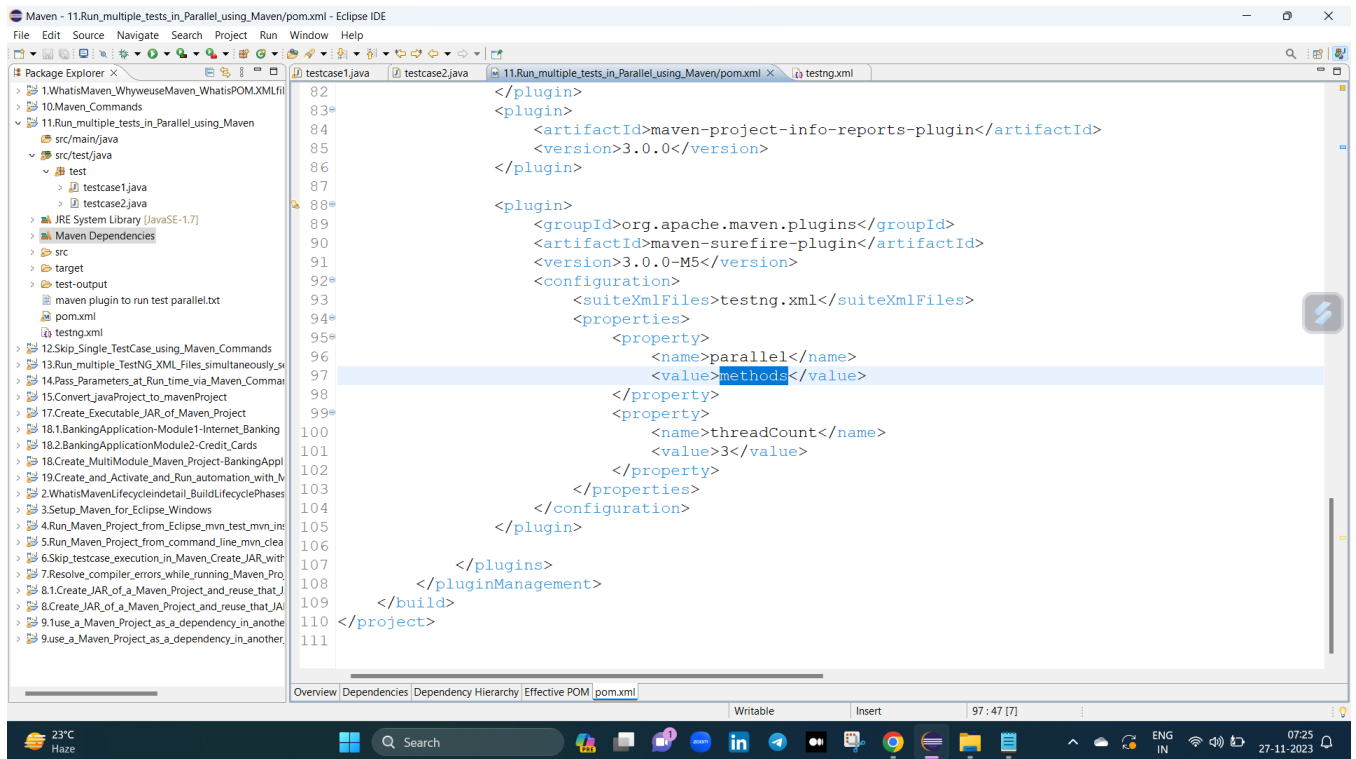
Overview Dependencies Dependency Hierarchy Effective POM pom.xml

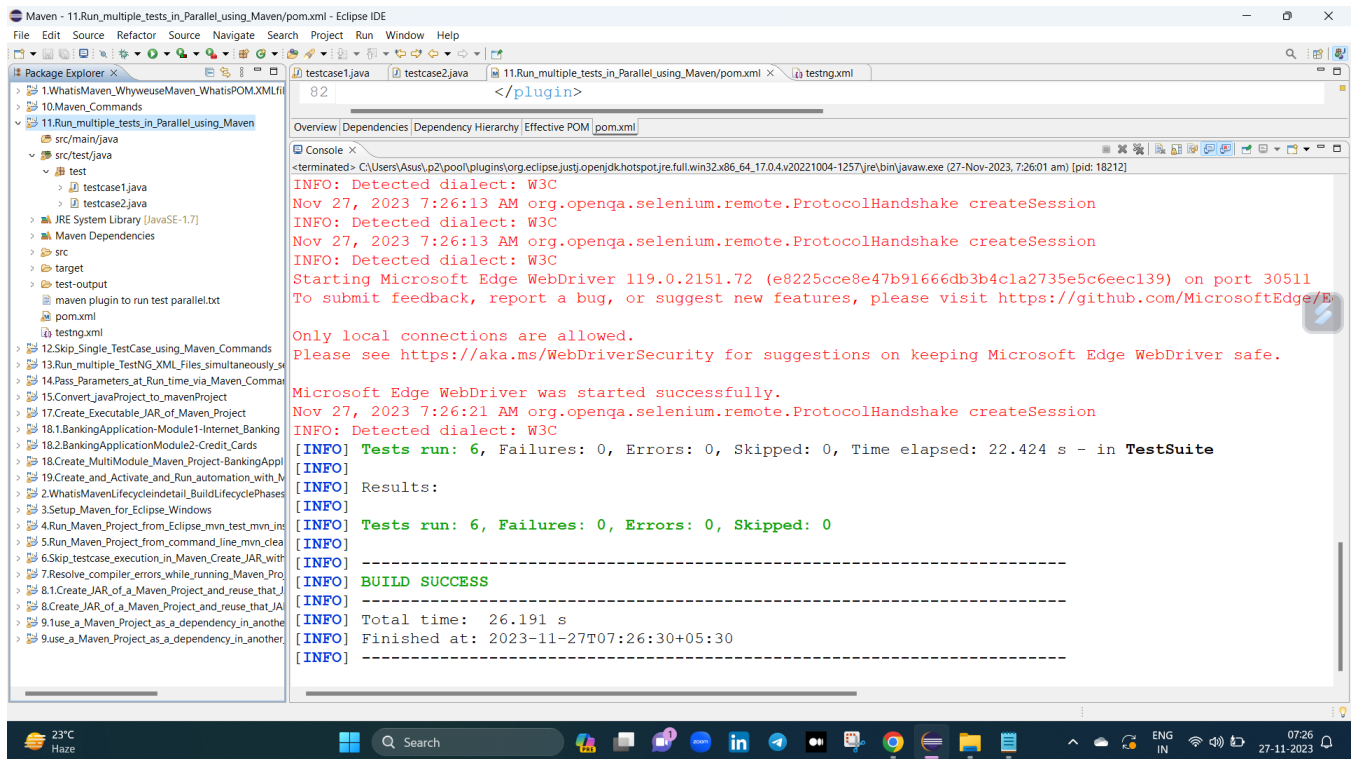
Writtable Insert 97:40 [7] Launching Executing test-g\_Maven: (45%)

23°C Haze 07:23 27-11-2023

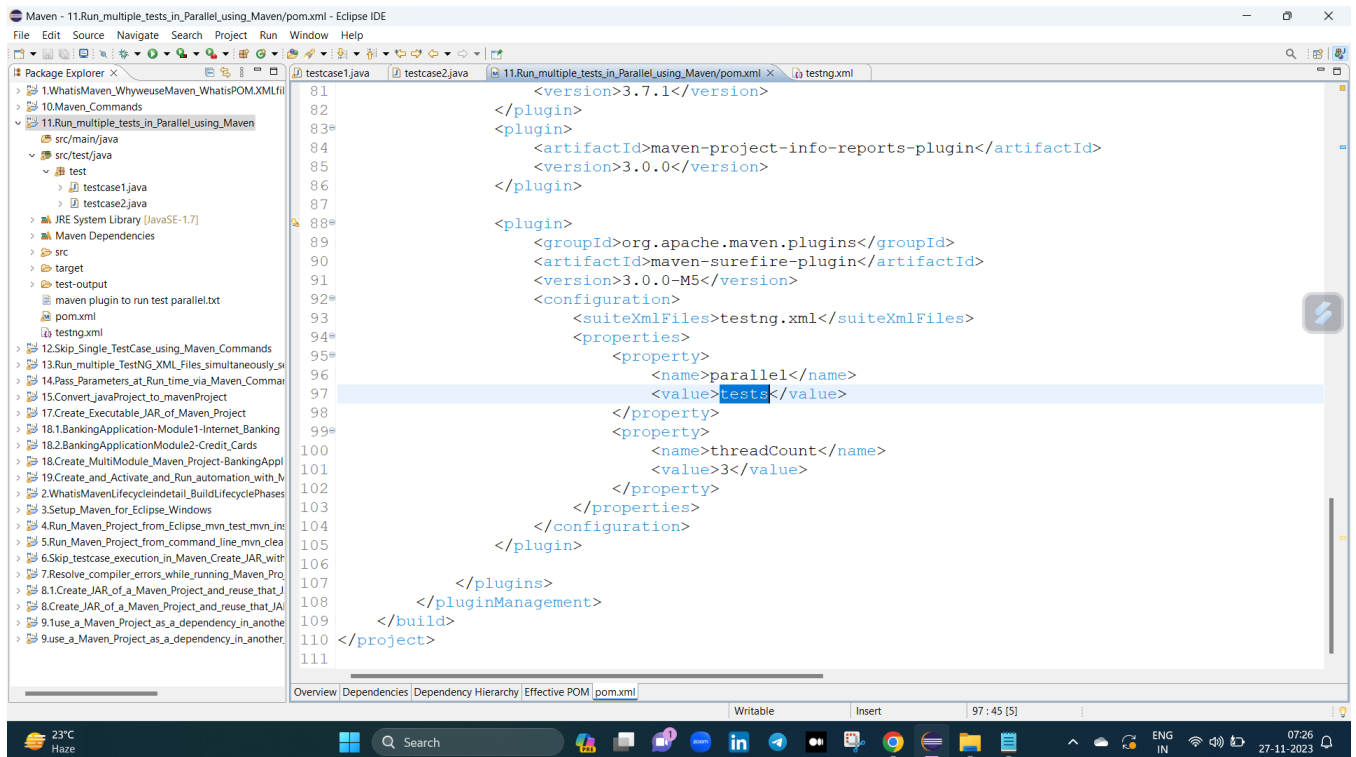


If we give methods, methods will run parallel. --> ani methods untea vaka class lo ani vakeasari browsers open aavutai.

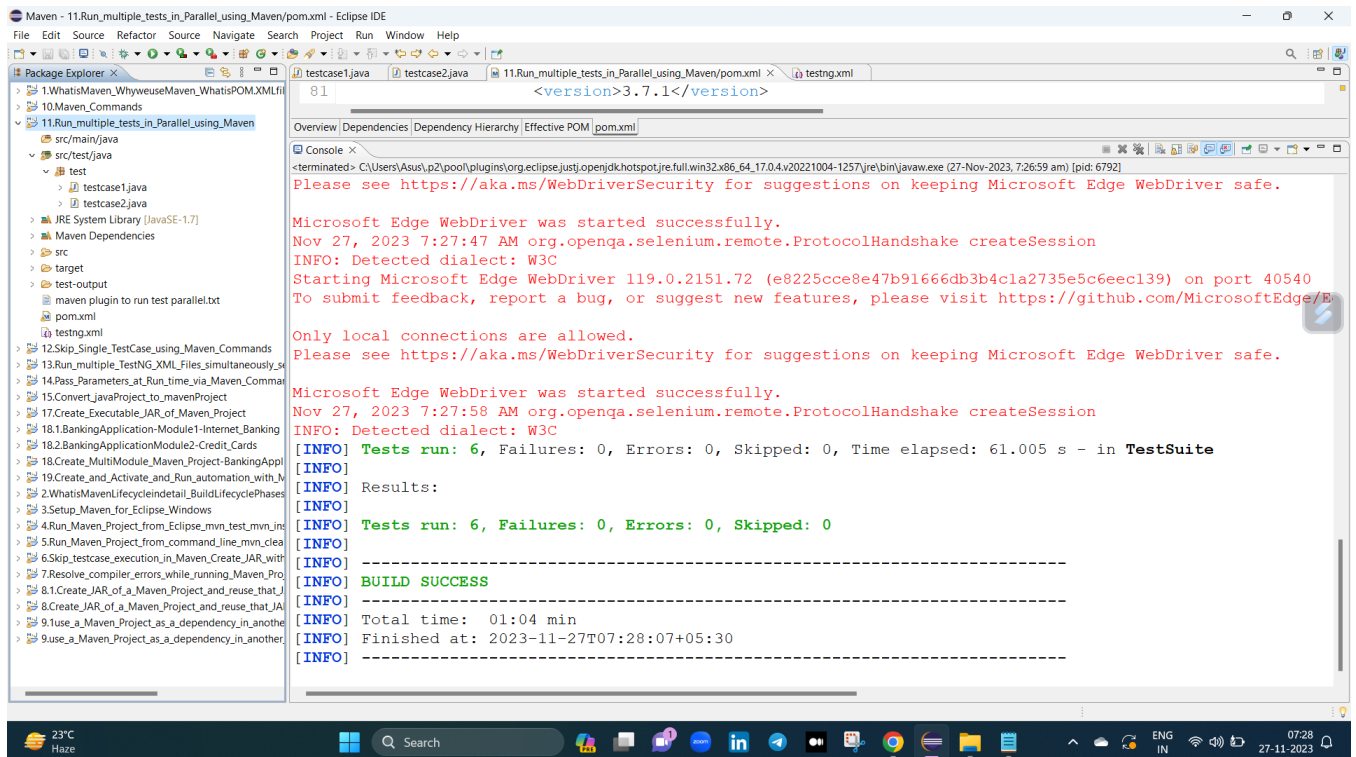




If we give tests, tests will run parallel. --> ani tests untea vaka class lo ani vakati tarvata vakati open aavutali.







```
<test thread-count="5" name="Test1">
```

```
<classes>
```

```
<class name="test.testcase1"/>
```

```
</classes>
```

```
</test> <!-- Test -->
```

```
<test thread-count="5" name="Test2">
```

```
<classes>
```

```
<class name="test.testcase2"/>
```

If we give tests, test will run parallel. --> manam only tests run chaiyali antea ala testng.xml lo paina chupinchinatu divide chaiyali tests.