

# CSI3025

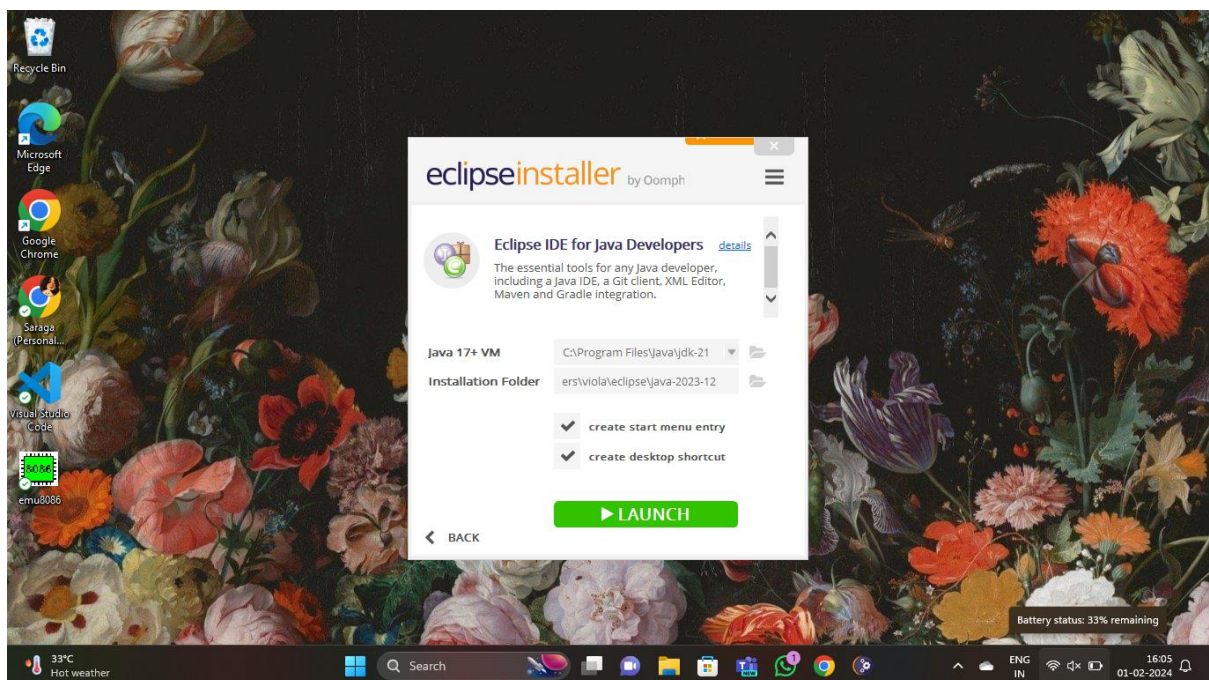
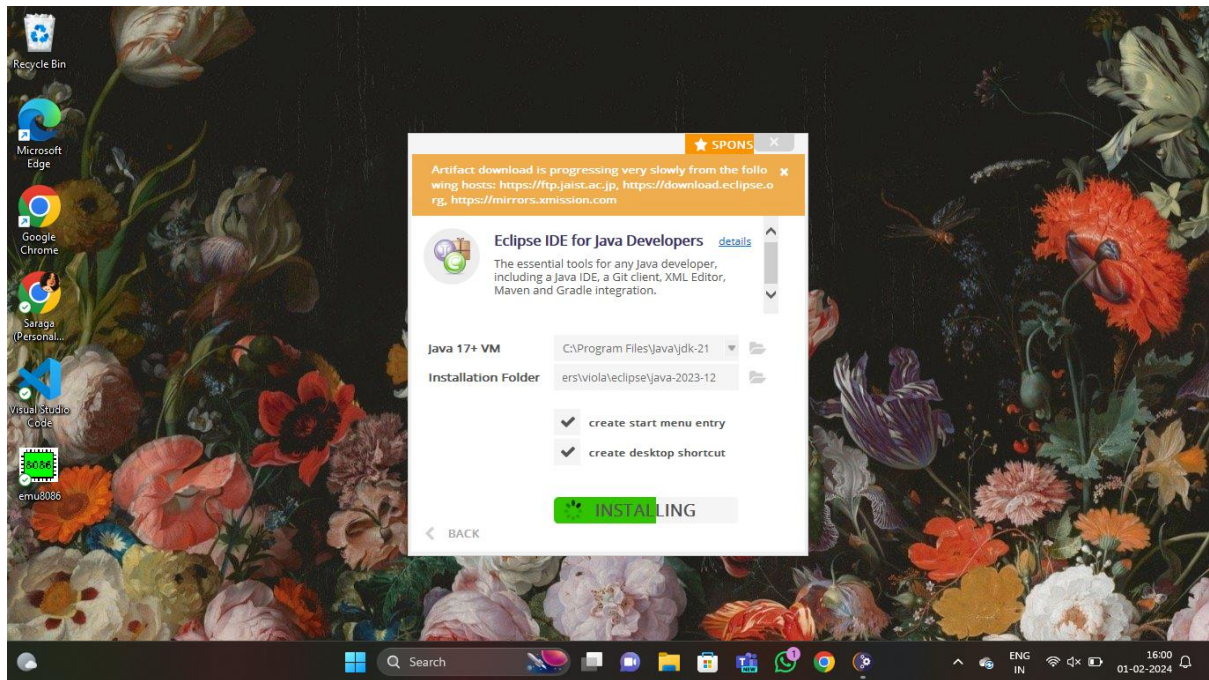
## Application Development and Deployment Architecture

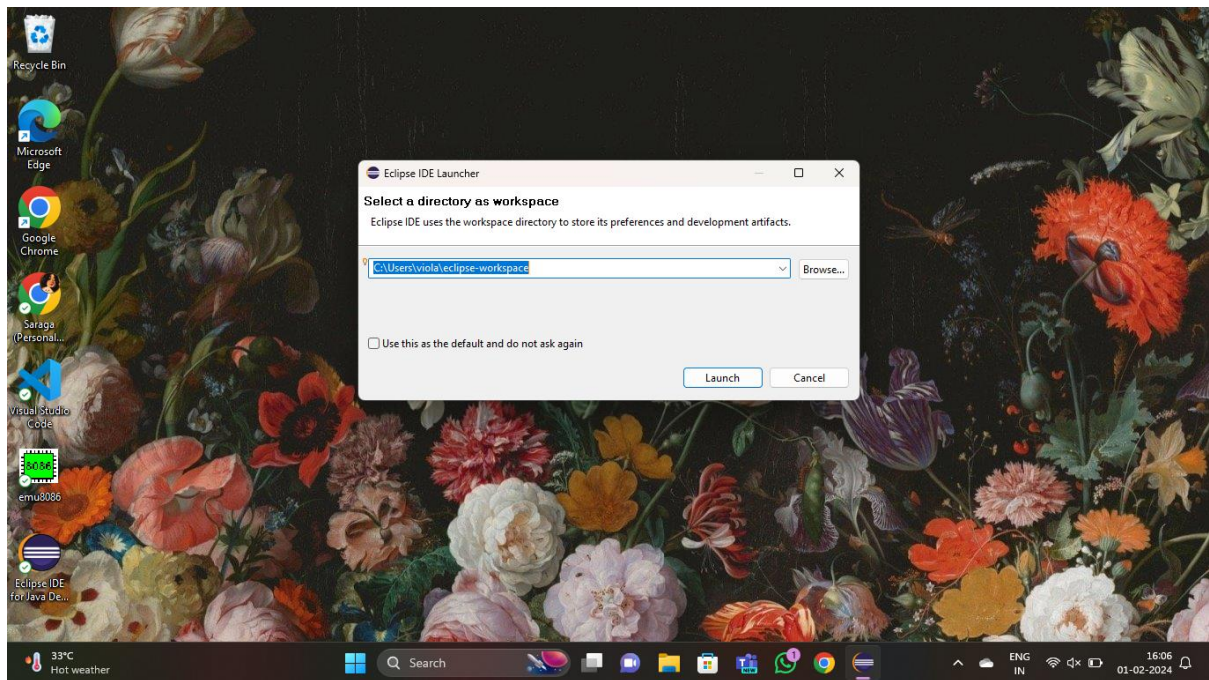
Winter Semester 2023 – '24

Lab Assignment - 2

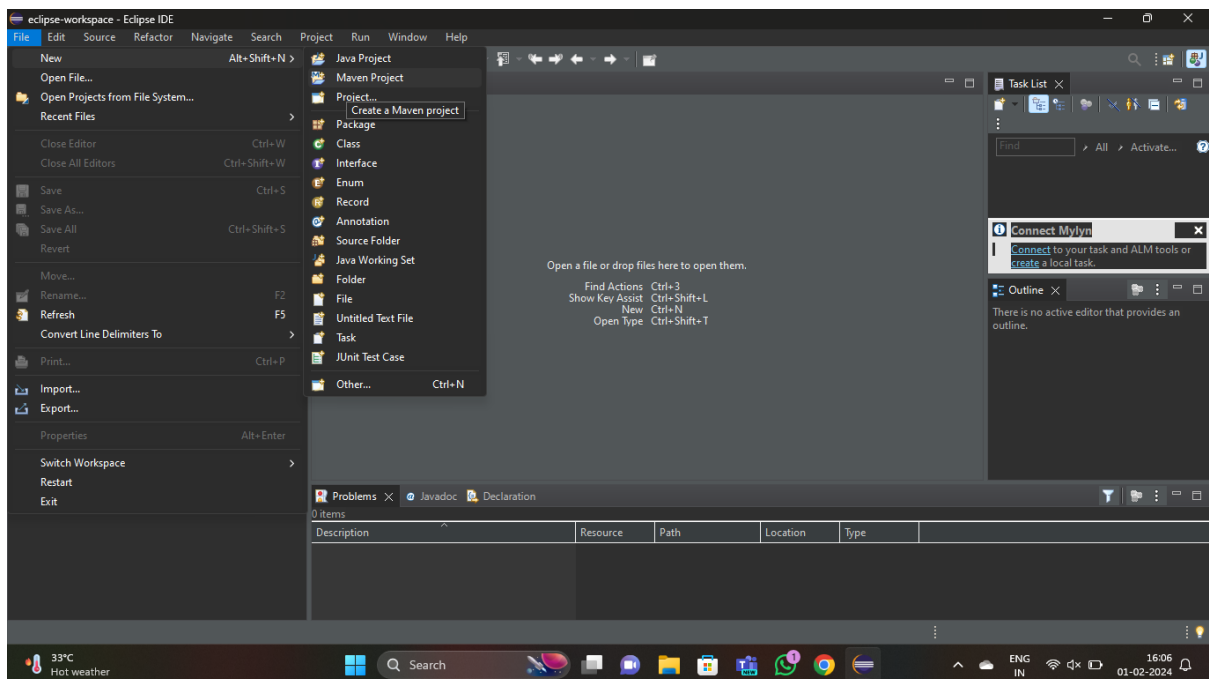
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## Step – 1: Installing eclipse.

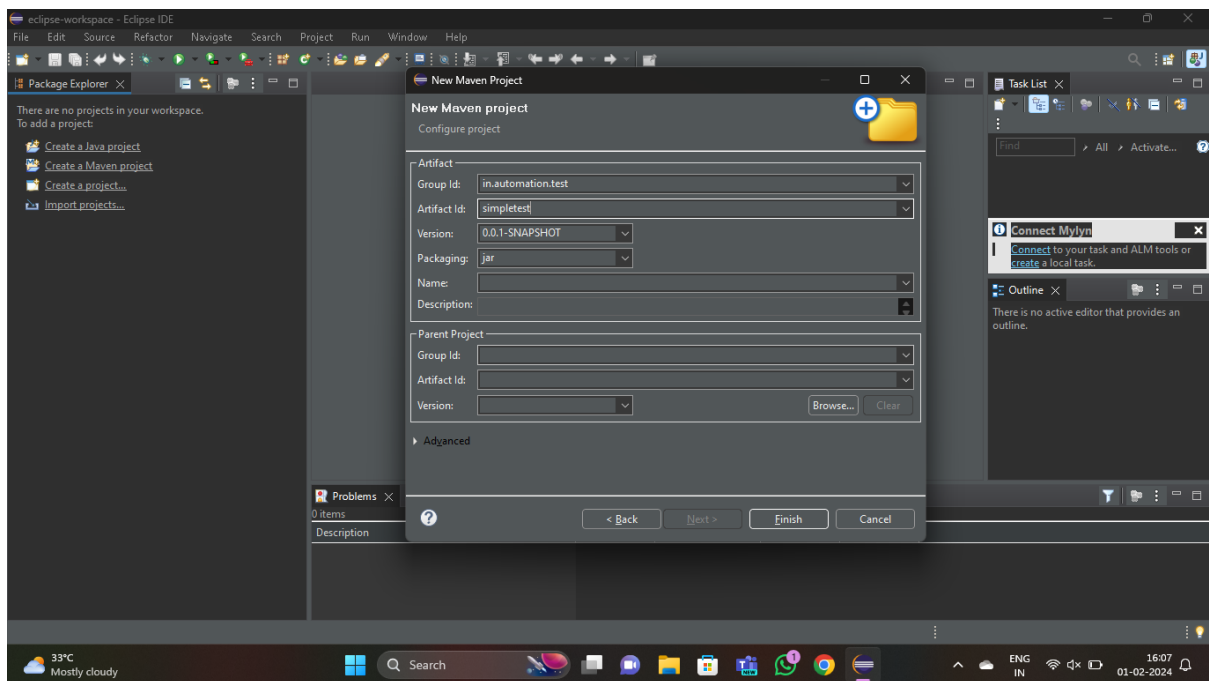
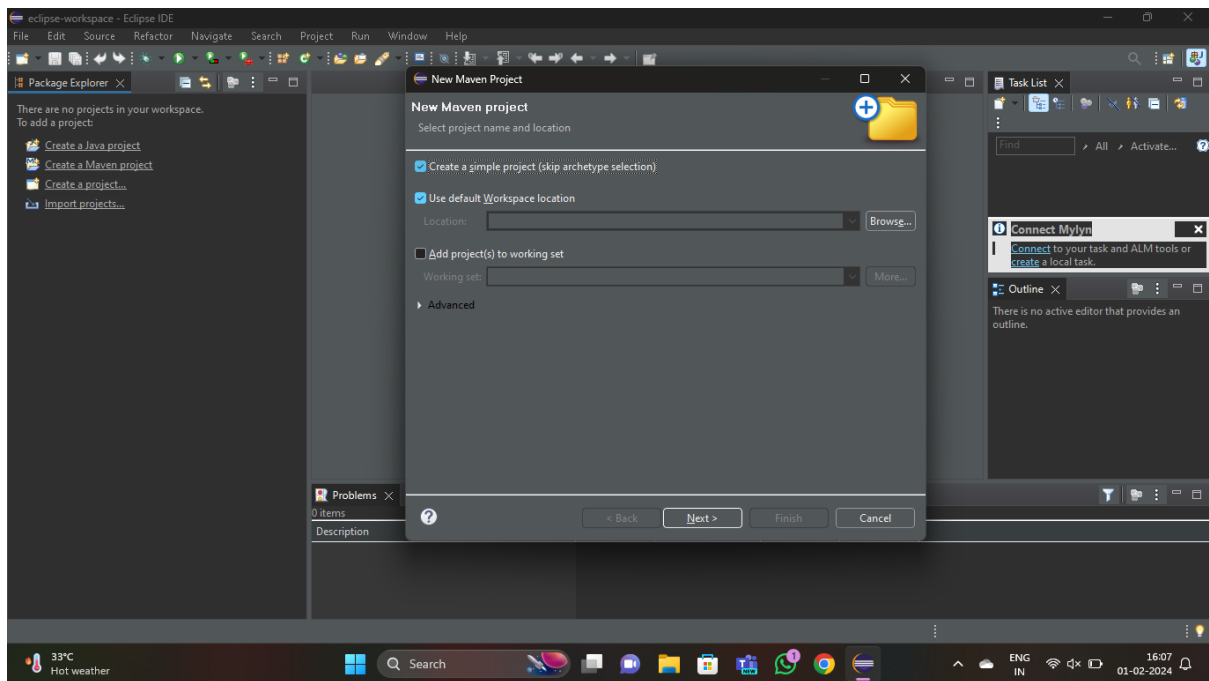




## Step – 2: Create a Maven Project.







Maven Repository: junit » junit

mvnrepository.com/artifact/junit/junit/4.13.2

Java Specifications  
JSON Libraries  
JVM Languages  
Language Runtime  
Core Utilities  
Mocking  
Web Assets  
Annotation Libraries  
HTTP Clients  
Logging Bridges  
Dependency Injection  
XML Processing  
Web Frameworks  
I/O Utilities  
Defect Detection Metadata  
Code Generators  
Configuration Libraries  
OSGI Utilities  
Concurrency Libraries  
Reflection Libraries  
Android Platform

HomePage: <http://junit.org>  
Date: Feb 13, 2021  
Files: jar (375 KB) View All  
Repositories: Central | HeavenArk | GroovyLibs | Minebench | Lutece Paris | Xceptance  
Ranking: #1 in MvnRepository (See Top Artifacts)  
#1 in Testing Frameworks & Tools  
Used By: 125,654 artifacts

Maven | Gradle | Gradle (Short) | Gradle (Kotlin) | SBT | Ivy | Grape | Leiningen | Buildr

```
<!-- https://mvnrepository.com/artifact/junit/junit -->
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.13.2</version>
  <scope>test</scope>
</dependency>
```

☒ Include comment with link to declaration

Copied to clipboard!

Compile Dependencies (1)

Category / License	Group / Artifact	Version	Updates
Testing BSD 3-clause	org.hamcrest » hamcrest-core	1.3	2.2

Indexed Repositories (1984)

- Central
- Atlassian
- Sonatype
- Hortonworks
- Spring Plugins
- Spring Lib M
- JCenter
- JBossEA

Upcoming Earnings

Search

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### Step – 3: Insert dependencies.

eclipse-workspace - simpletest/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Package Explorer

- simpletest
  - src/main/java
  - src/main/resources
  - src/test/java
  - src/test/resources
  - JRE System Library [JavaSE-1.8]
  - Maven Dependencies
  - src
  - target
  - pom.xml

simpletest/pom.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<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/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>in.automation.test</groupId>
  <artifactId>simpletest</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies><!-- https://mvnrepository.com/artifact/junit/junit -->
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.13.2</version>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Problems 2 errors, 3 warnings, 0 others

Description	Resource	Path	Location	Type
> Errors (2 items)				
> Warnings (3 items)				

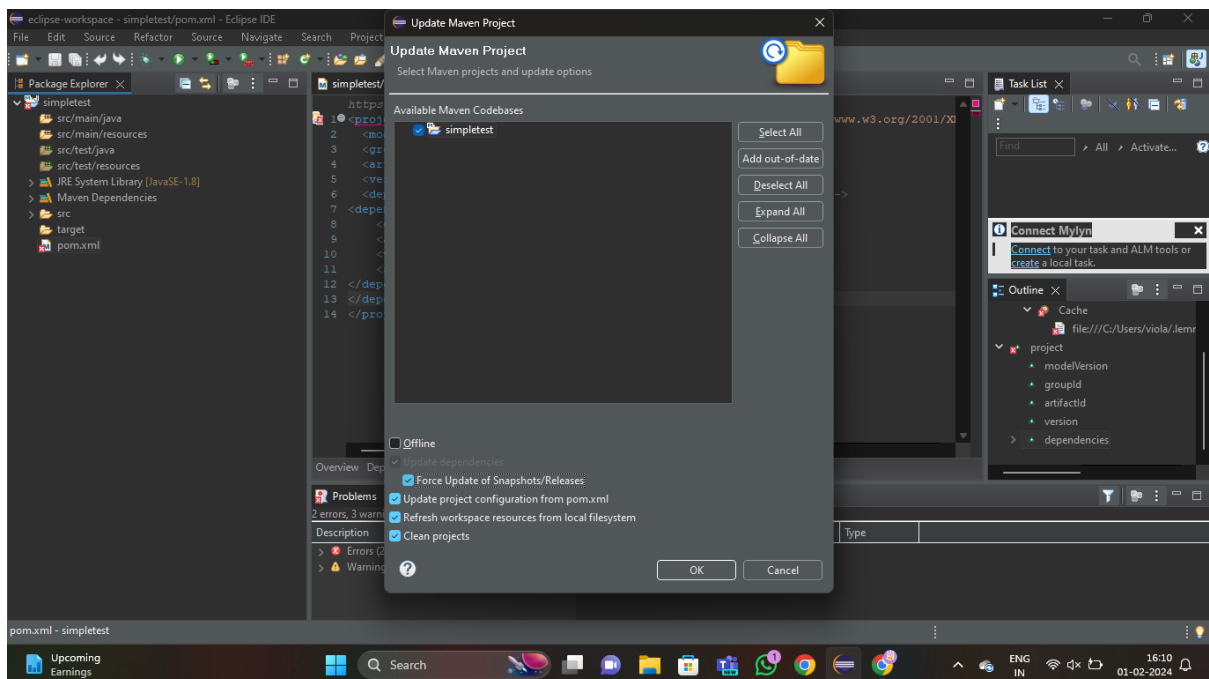
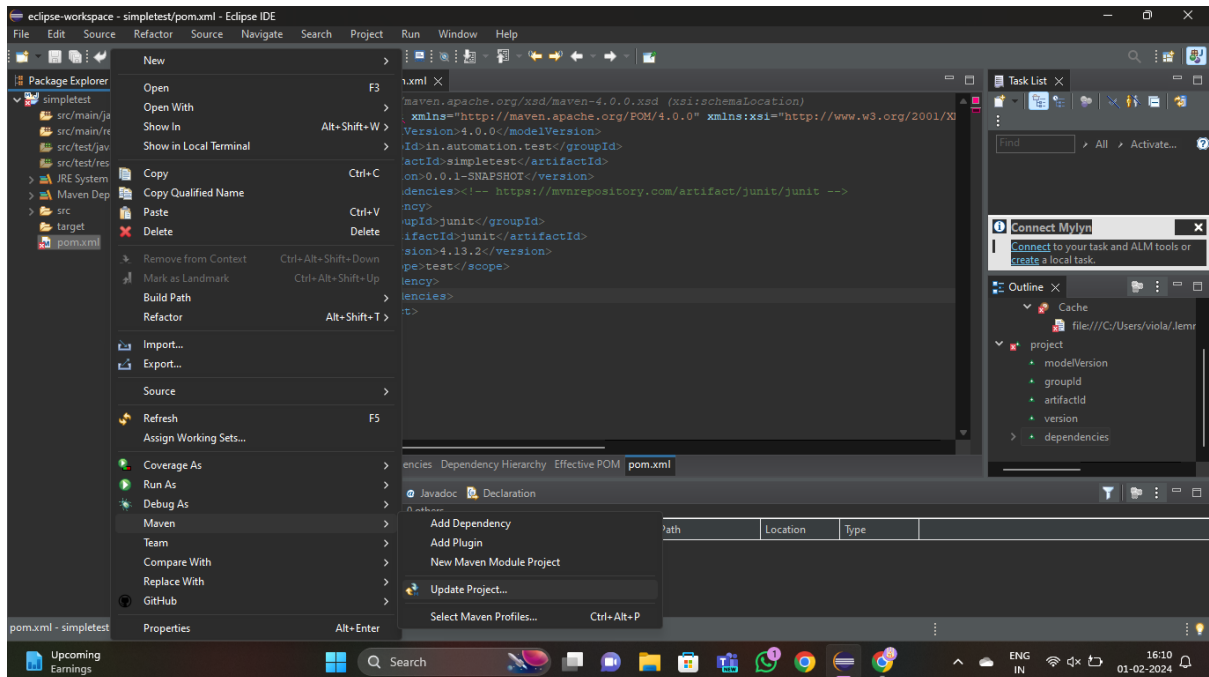
Writeable Insert 13: 1: 586

Upcoming Earnings

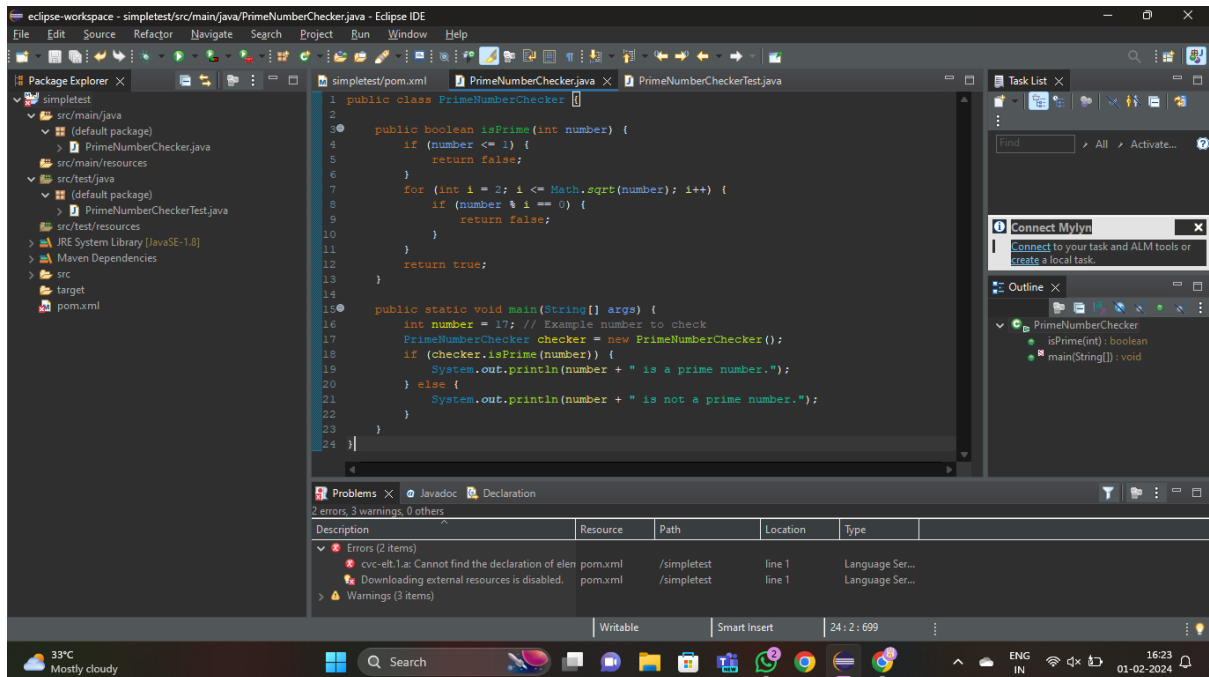
Search

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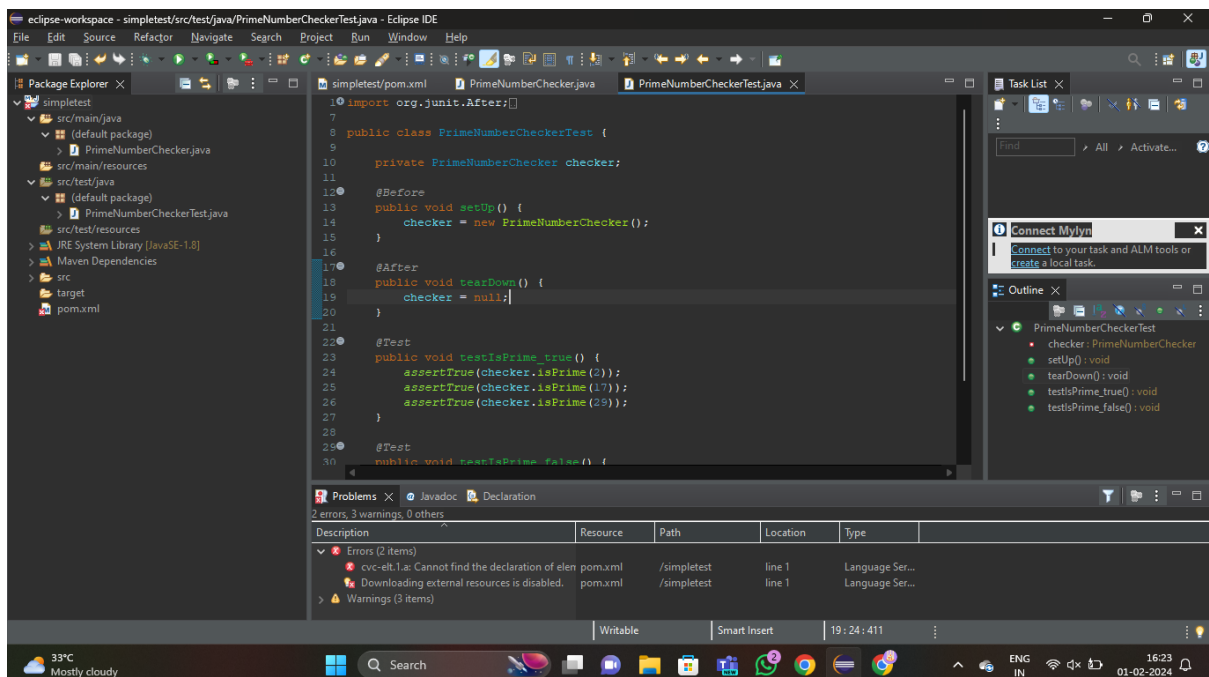
## Step – 4: Update Maven Project.



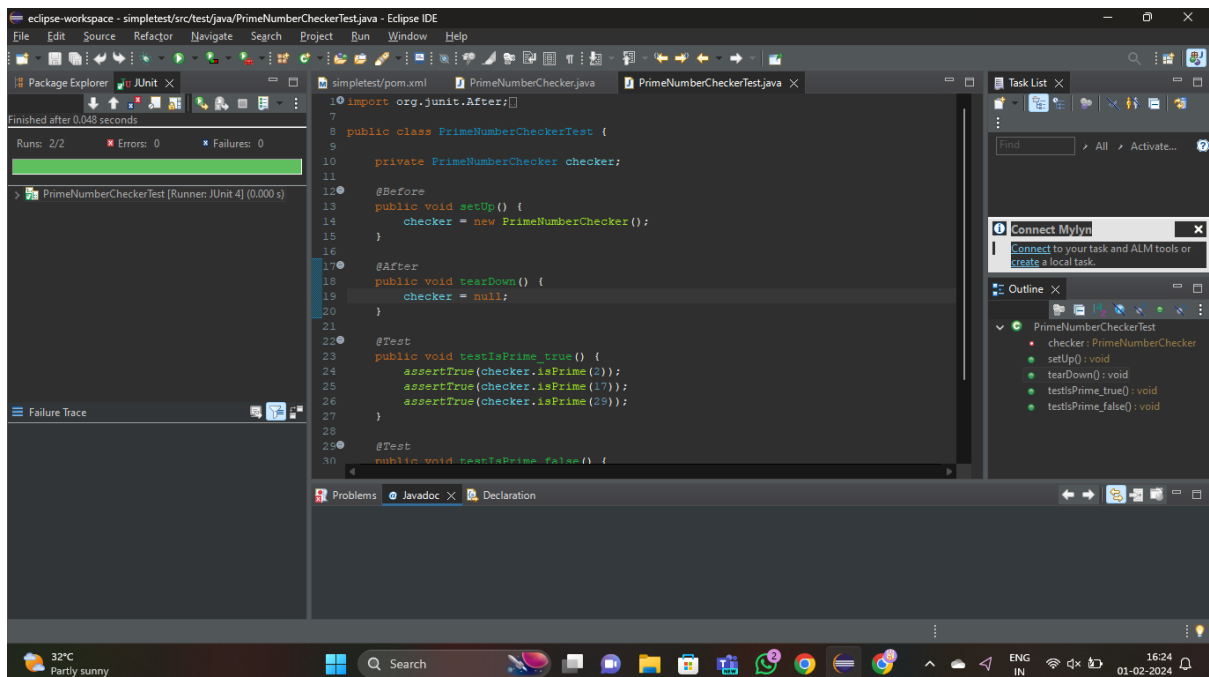
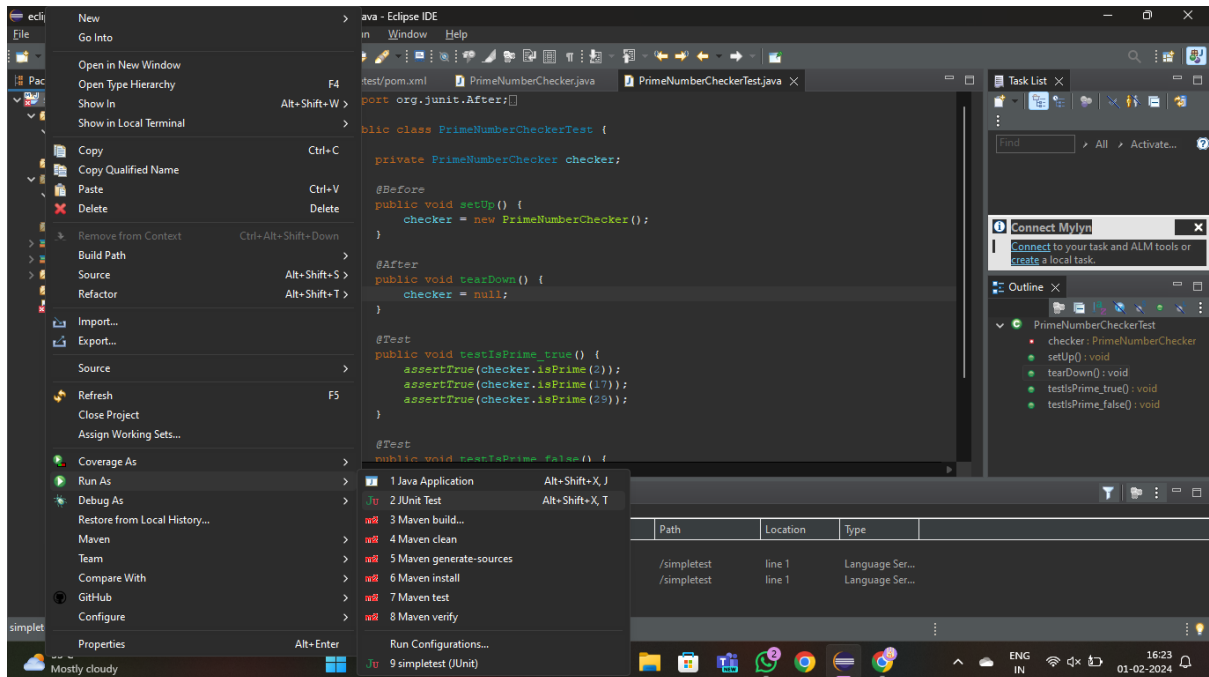
## Step – 5: PrimeNumberChecker.java.



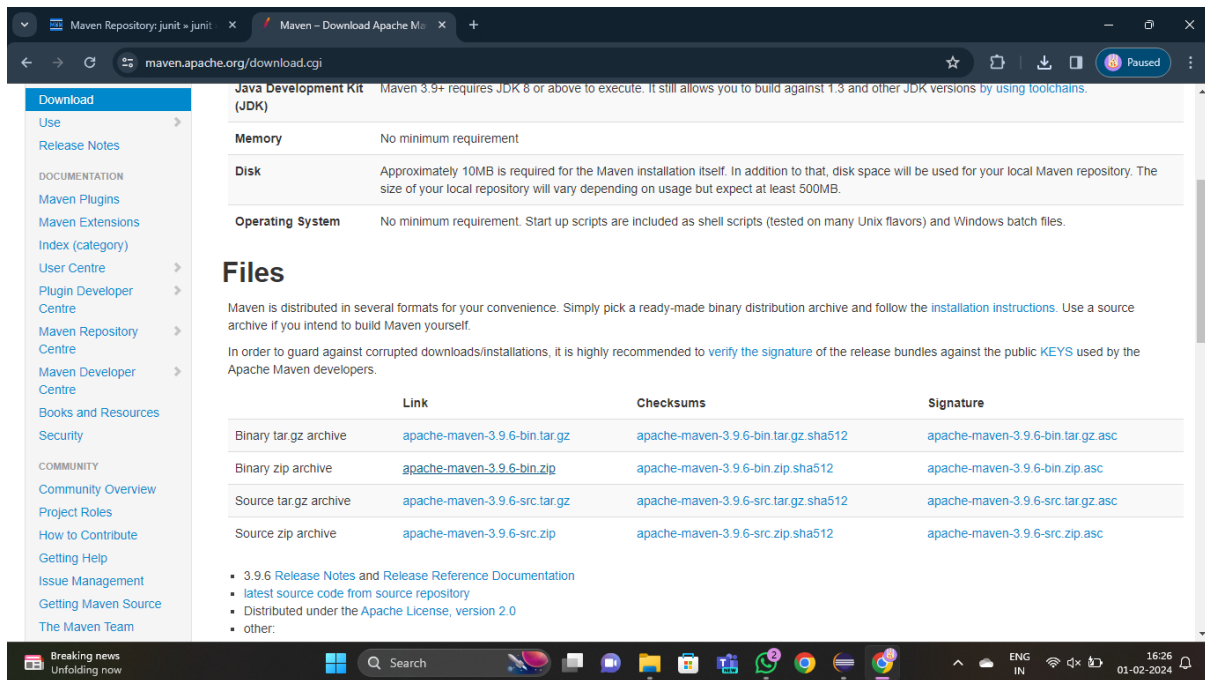
## Step – 6: PrimeNumberCheckerTest.java.



## Step – 7: RunAs – Unit test







## Step – 8: Output

```
C:\Windows\System32\cmd.exe
C:\Users\viola\eclipse-workspace\simpletest>mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< in.automation.test:simpletest >-----
[INFO] Building simpletest 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ simpletest ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src/main/resources to target/classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ simpletest ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src/test/resources to target/test-classes
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ simpletest ---
[INFO] Changes detected - recompiling the module! :input tree
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file with javac [debug target 1.8] to target/test-classes
[WARNING] bootstrap class path not set in conjunction with -source 8
[INFO]
[INFO] --- surefire:3.2.2:test (default-test) @ simpletest ---
[INFO] Using auto detected provider org.apache.maven.surefire.junit4.JUnit4Provider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running PrimeNumberCheckerTest
Before the Test
After the Test
```

```
C:\Windows\System32\cmd.exe X + v

[INFO] -----
[INFO] Running PrimeNumberCheckerTest
Before the Test
After the test
Before the Test
After the test
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.060 s -- in PrimeNumberCheckerTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 1.982 s
[INFO] Finished at: 2024-02-01T16:32:28+05:30
[INFO] -----

C:\Users\viola\eclipse-workspace\simpletest>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< in.automation.test:simpletest >-----
[INFO] Building simpletest 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ simpletest ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src/main/resources to target/classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ simpletest ---
```

```
C:\Windows\System32\cmd.exe X + v

[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ simpletest ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src/test/resources to target/test-classes
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- surefire:3.2.2:test (default-test) @ simpletest ---
[INFO] Using auto detected provider org.apache.maven.surefire.junit4.JUnit4Provider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running PrimeNumberCheckerTest
Before the Test
After the test
Before the Test
After the test
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.059 s -- in PrimeNumberCheckerTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jar:3.3.0:jar (default-jar) @ simpletest ---
[INFO] Building jar: C:\Users\viola\eclipse-workspace\simpletest\target\simpletest-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 1.905 s
```

```
C:\Windows\System32\cmd.exe X + v
[INFO] --- compiler:3.11.0:compile (default-compile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ simpletest ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\test\resources to target\test-classes
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ simpletest ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- surefire:3.2.2:test (default-test) @ simpletest ---
[INFO] Using auto detected provider org.apache.maven.surefire.junit4.JUnit4Provider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running PrimeNumberCheckerTest
Before the Test
After the test
Before the Test
After the test
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.059 s -- in PrimeNumberCheckerTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- jar:3.3.0:jar (default-jar) @ simpletest ---
[INFO] Building jar: C:\Users\Viola\workspace\simpletest\target\simpletest-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.905 s
[INFO] Finished at: 2024-02-01T16:33:12+05:30
```

32°C  
Partly sunny

Search

ENG  
IN

16:39  
01-02-2024

```
38 }
}

Problems Javadoc Declaration Console X
<terminated> simpletest [JUnit] C:\Program Files\Java\jdk-21\bin\javaw.exe (01-Feb-2024, 4:35:52 pm - 4:35:52 pm) [pid: 23568]
Before the Test
After the test
Before the Test
After the test
```