

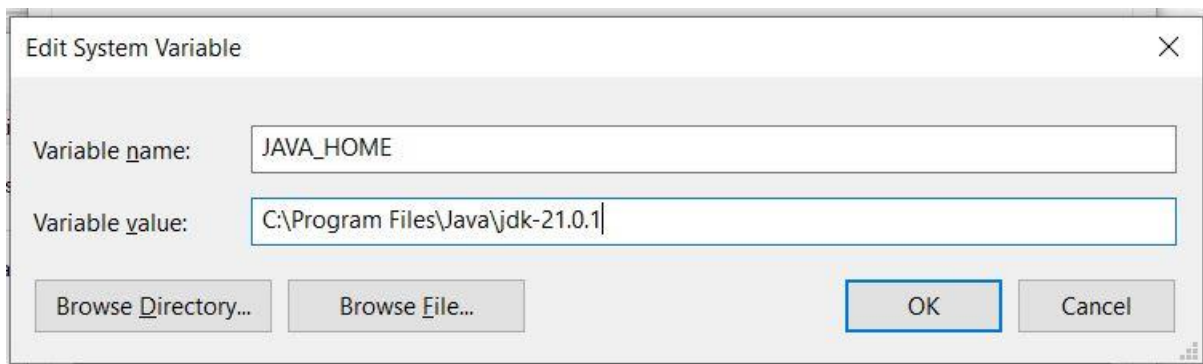
Java Testing

Prerequisite:

- Eclipse
- Junit5

Step 1 – Install Java –

1. *Download jdk and jre from <http://www.oracle.com/technetwork/java/javase/downloads/index.html>*
2. *Accept license agreement. Install JDK and JRE.*
3. *Make sure that your environment variable as shown in the following picture.*



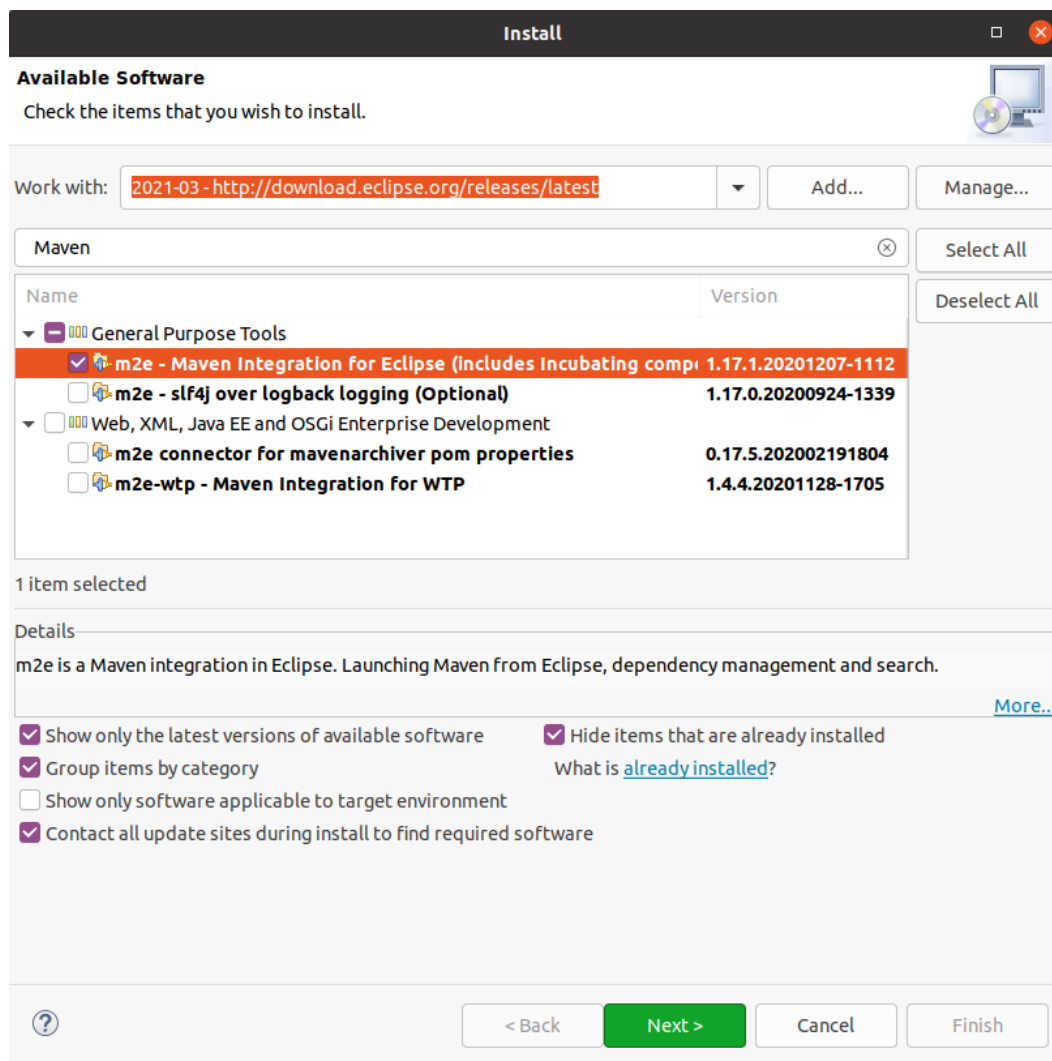
Step 2 – Install Eclipse IDE –

1. *Download Eclipse from <https://eclipse.org/downloads/>*
 2. *Unzip and Eclipse installed.*
-

Step 3 – Install Maven –

Most Eclipse IDE downloads already include support for the Maven build system. To check, use **Help** > **About** and check if you can see the Maven logo (with the M2E) sign. If Maven support is not yet installed, the following description can be used to install it.

1. *Open Eclipse.*
2. *Got to Help → Eclipse Marketplace → Search maven → Maven Integration for Eclipse → INSTALL.*



Step 4 – Create Maven project.

1. Go to File → New → Others → Maven → Maven Project.
 2. For simplicity (no archetype), select “Create simple project” to skip the archetype selection.
 3. Provide group Id (group Id will identify your project uniquely across all projects).
 4. Provide artifact Id (artifact Id is the name of the jar without version. You can choose any name which is in lowercase).
 5. Click on Finish.
-

New Maven Project
Configure project

Artifact

Group Id: CucumberDemo

Artifact Id: cucumberdemo

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name:

Description:

Parent Project

Group Id:

Artifact Id:

Version: Browse... Clear

► Advanced

? < Back Next > Finish Cancel

Step 5 – Locate pom.xml –

1. Go to the package explorer on the left hand side of Eclipse
 2. Expand your project.
 3. Locate pom.xml file.
 4. Double click on pom.xml or Right-click and select the option, Open with “Text Editor”.
-



Step 6 – Add dependency for JUnit5

JUnit5 provides a modern **foundation for developer-side testing** on the JVM.

1. Open pom.xml in edit mode, create dependencies tag (<dependencies> </dependencies>), inside the project tag. Inside the dependencies tag, create dependency tag (<dependency> </dependency>)
 2. Provide the following information within the dependency tag will indicate Maven, which JUnit5 jar files are to be downloaded from the central repository to the local repository
-

```
<dependencies>
  <dependency>
    <groupId>org.junit.jupiter</groupId>
    <artifactId>junit-jupiter-engine</artifactId>
    <version>5.9.1</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.junit.platform</groupId>
    <artifactId>junit-platform-suite</artifactId>
    <scope>test</scope>
    <version>1.10.2</version>
  </dependency>
</dependencies>
```

****Note:** This tutorial uses Junit5 with the latest version for Maven project . If you want to use other versions, search them out on “<https://mvnrepository.com/>”*