Prerequisites:

Maven

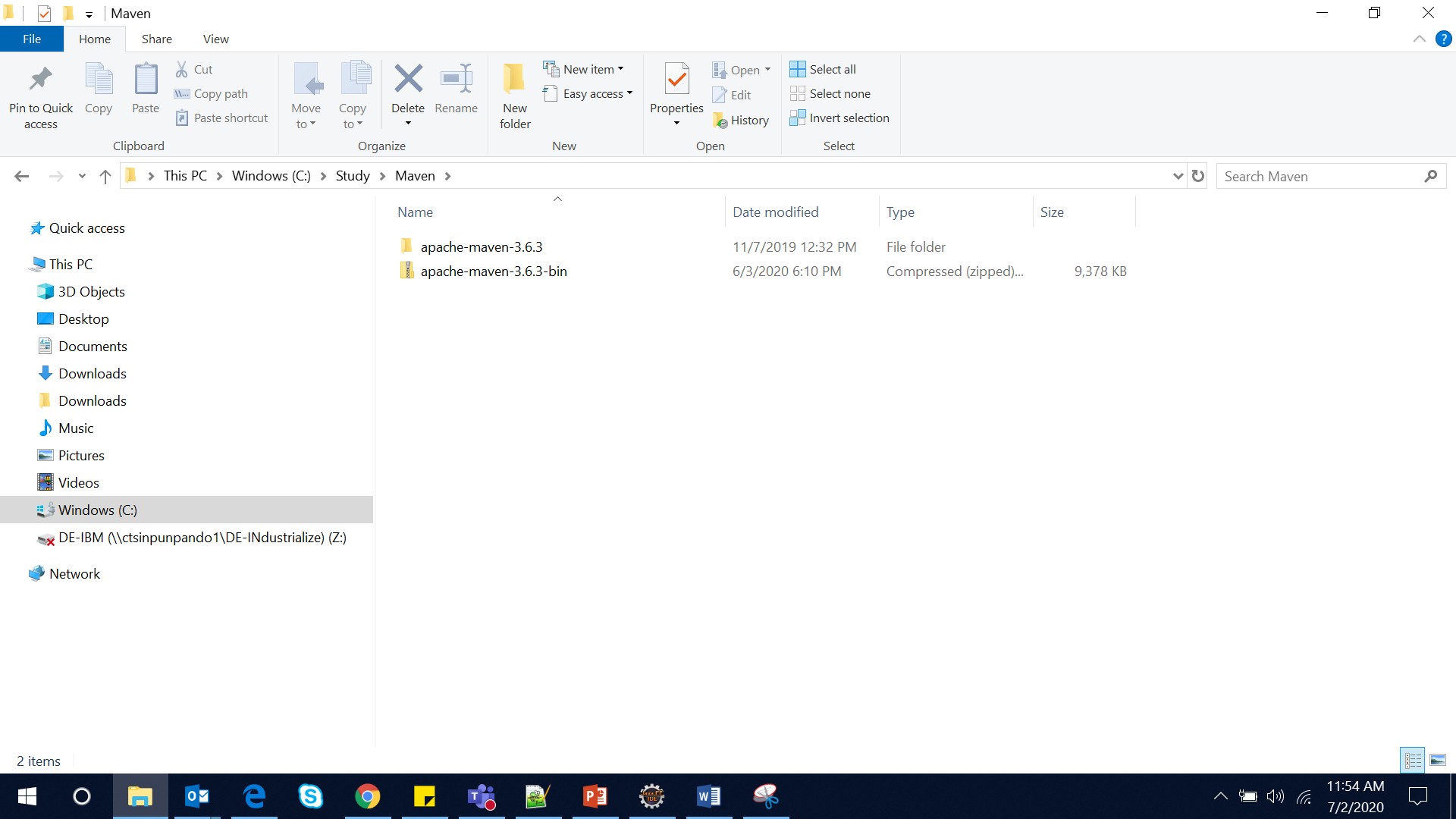
Eclipse

JDK 11

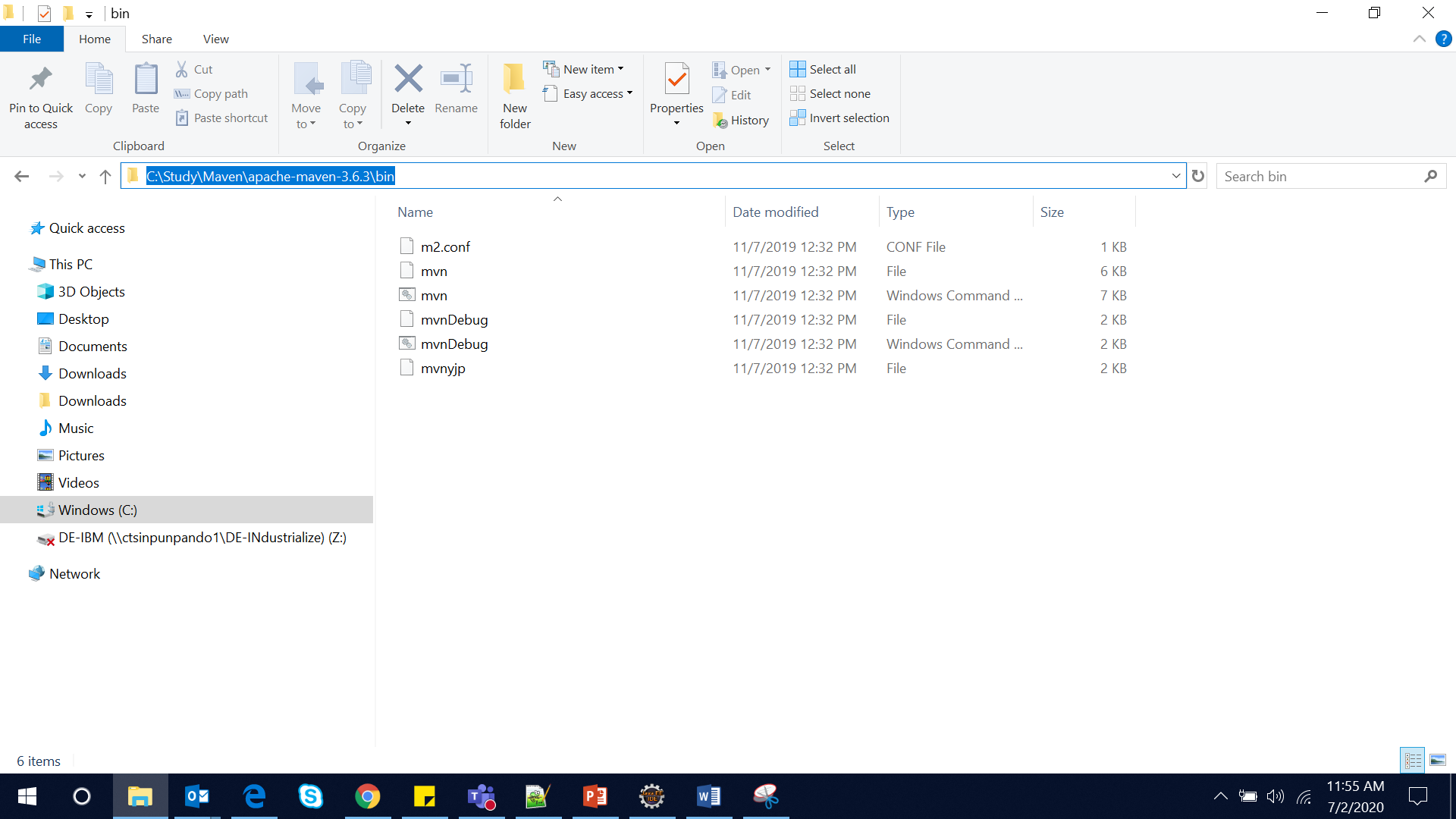
SonarQube

Maven Installation:

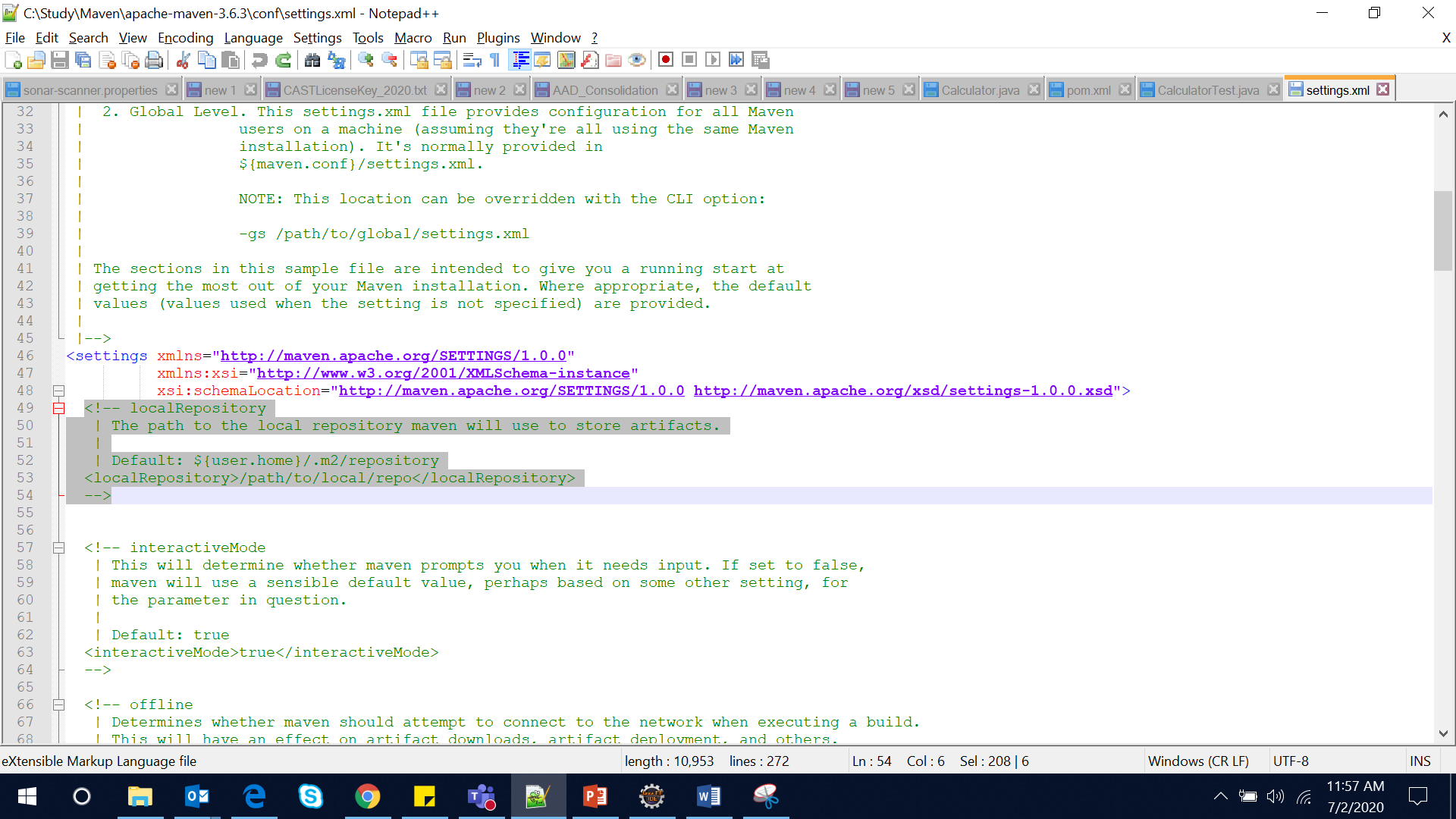
1. Download latest maven from the Apache maven site <https://maven.apache.org/download.cgi>:



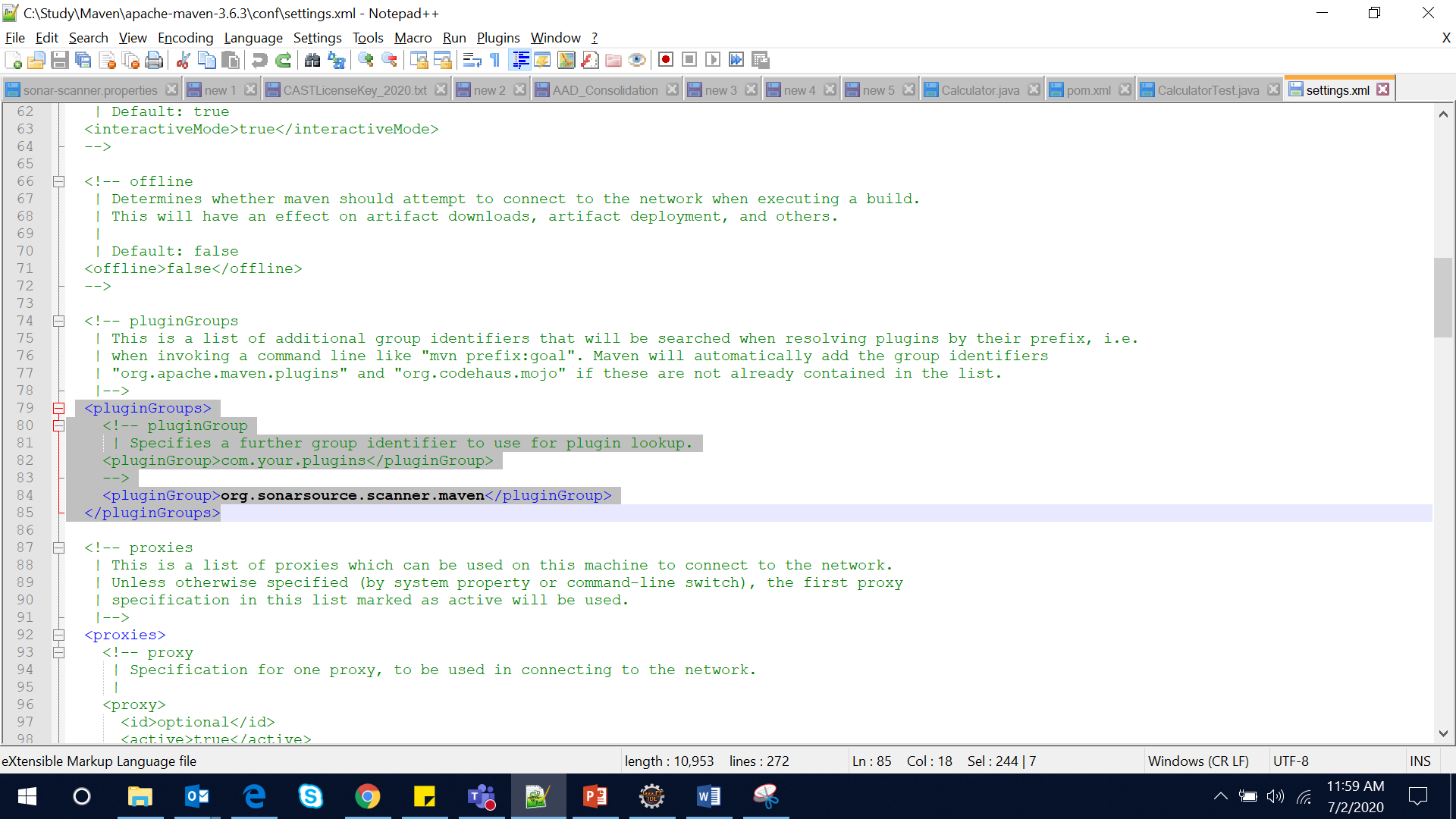
1. Add maven bin location to PATH variable:

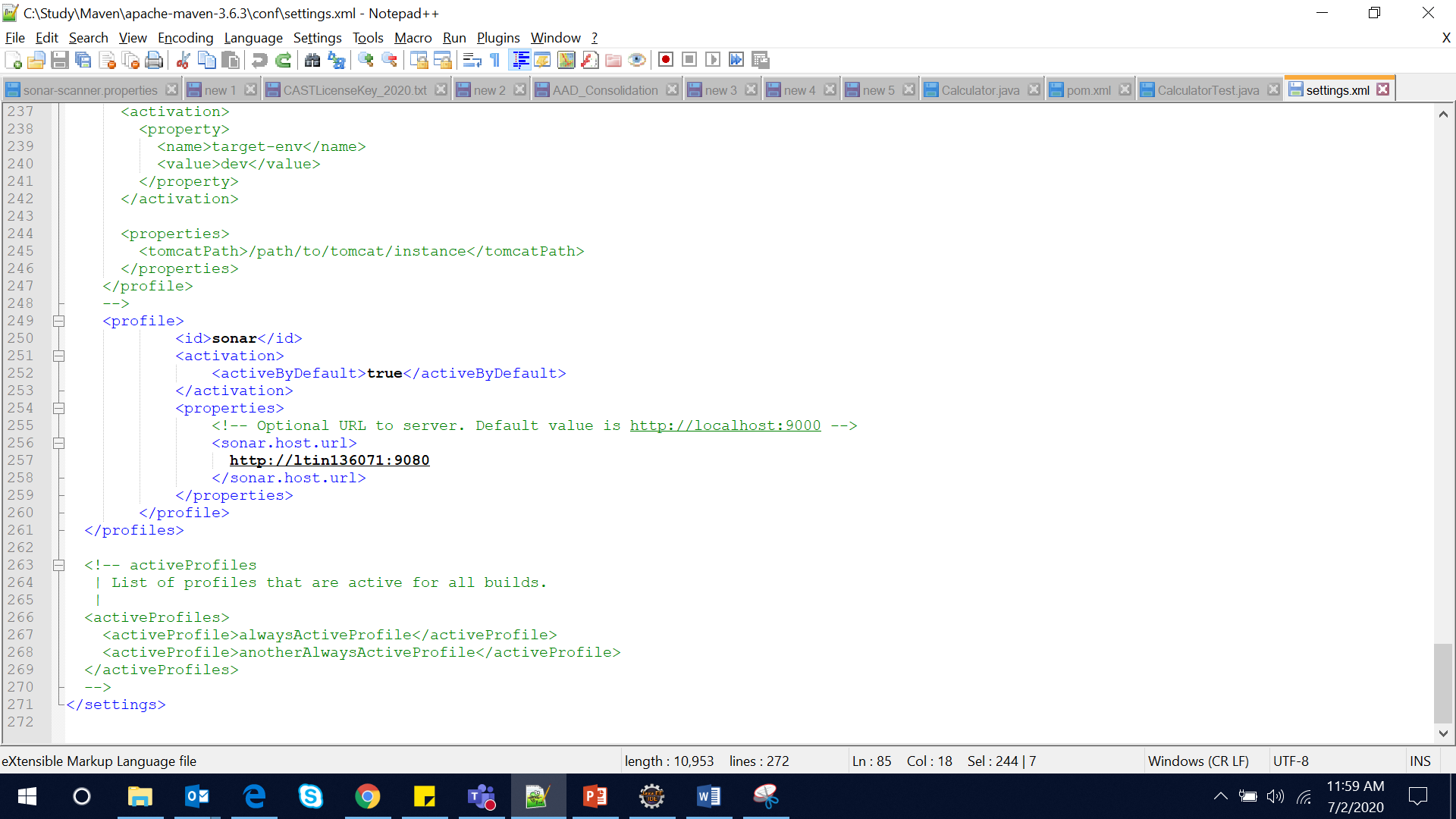


1. Update the below section with the folder to store all the dependent jar files for maven development:



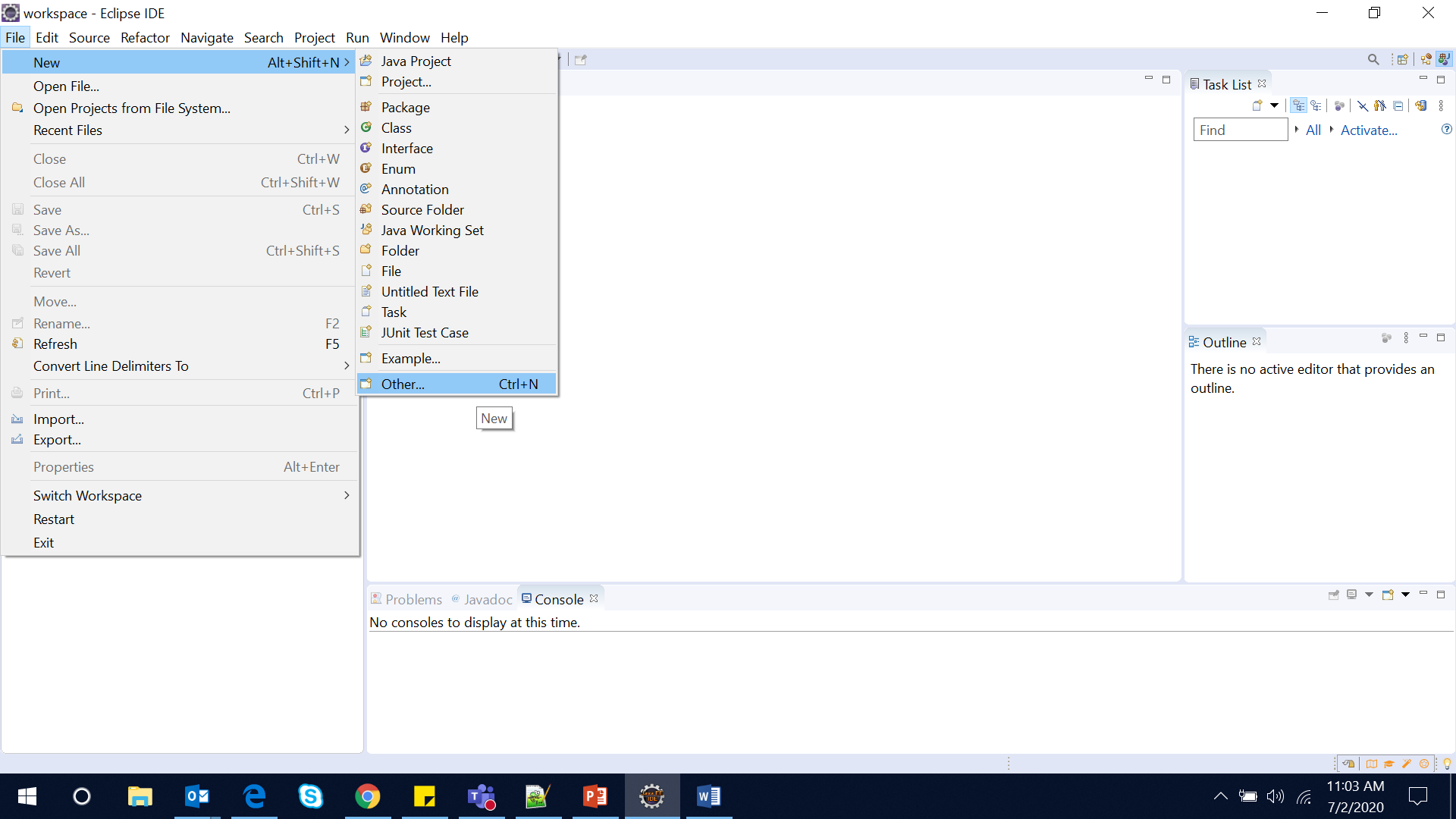
1. Add below tags to set the SonarQube server location:



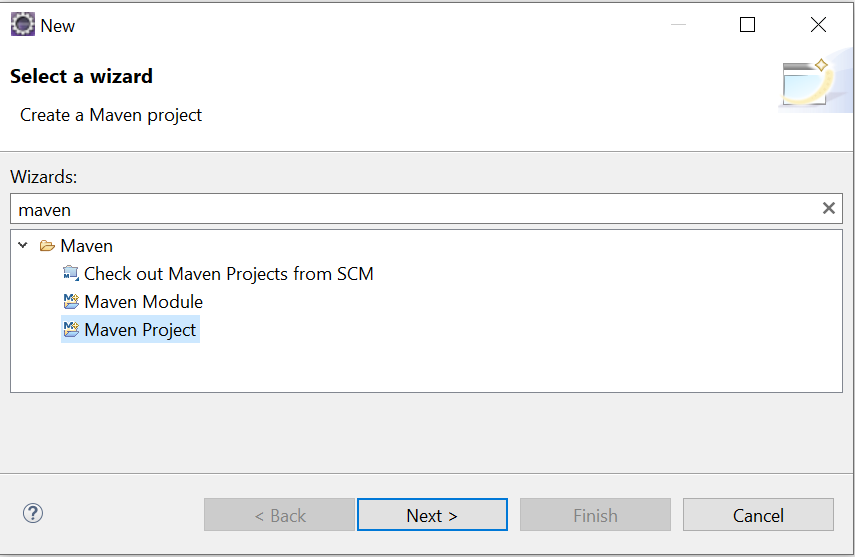
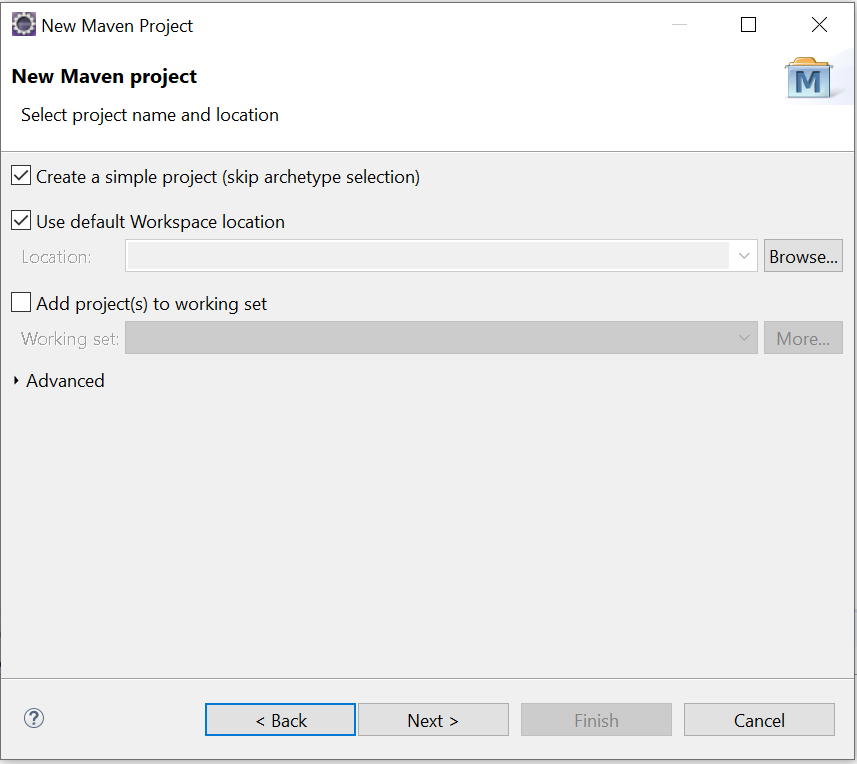


Create Maven Project in eclipse and add unit test cases to the project

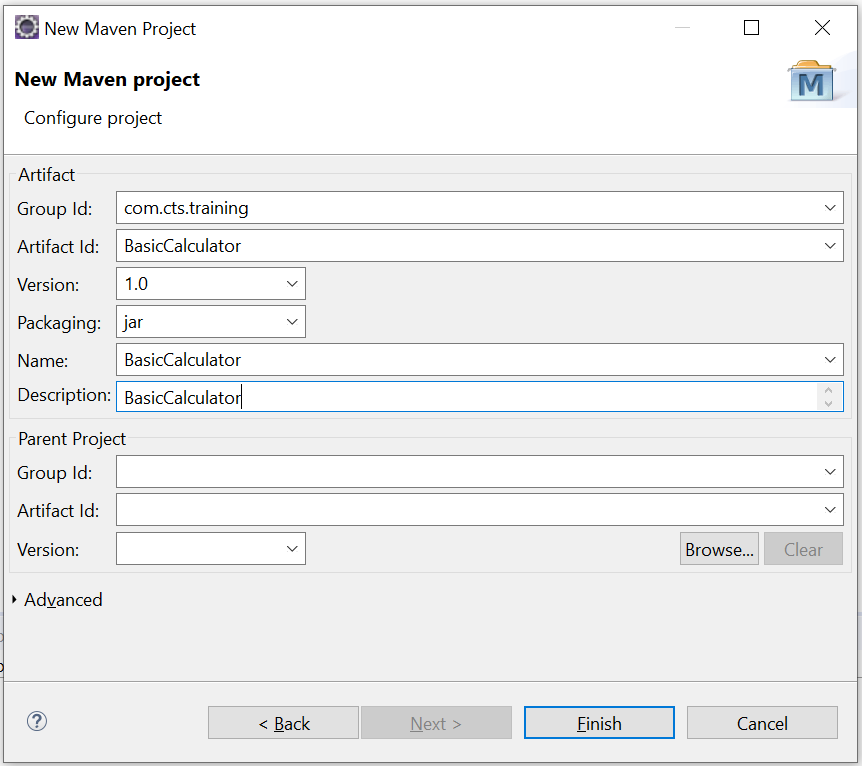
1. Open Eclipse – Click on File->New->Other:



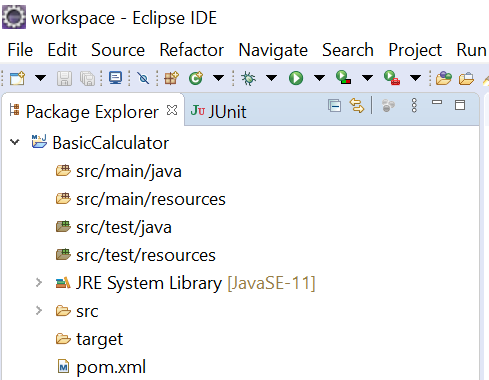
1. Search for maven and select Maven Project -> Next:

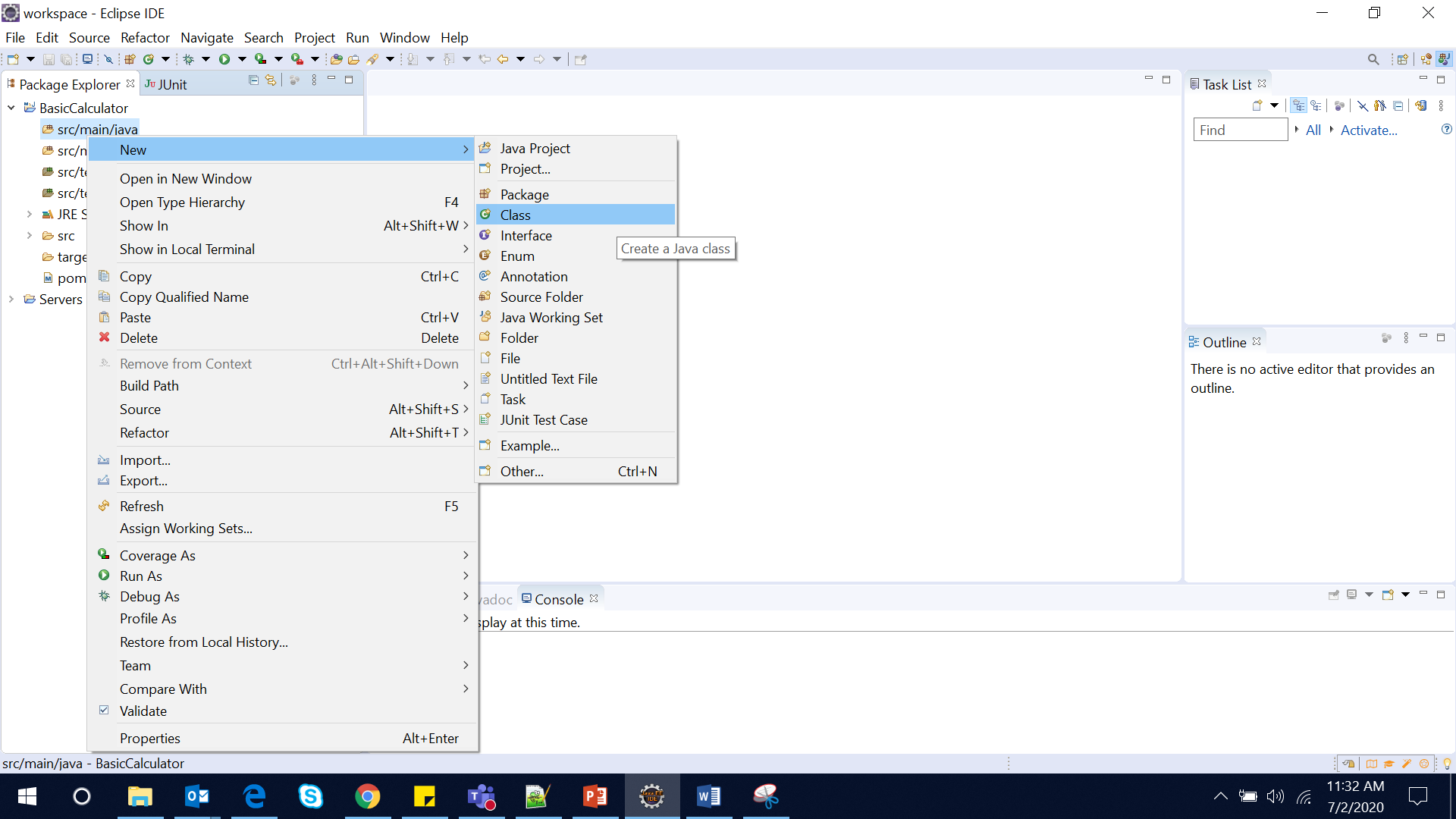
1. Provide the project details listed as below:

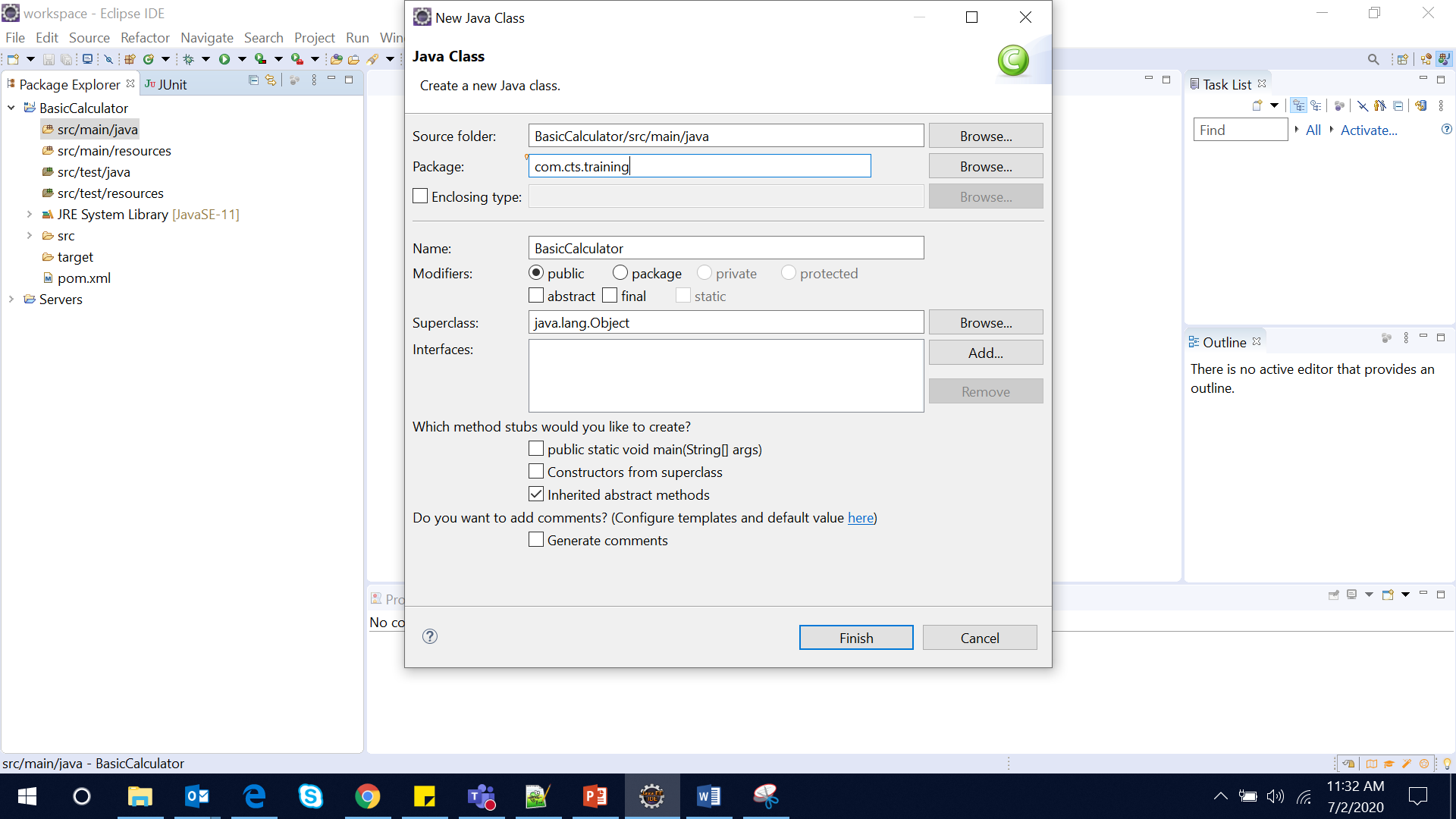
**GroupId** will identify your project uniquely across all projects, so we need to enforce a naming schema. It has to follow the package name rules, what means that has to be at least as a domain name you control, and you can create as many subgroups as you want.

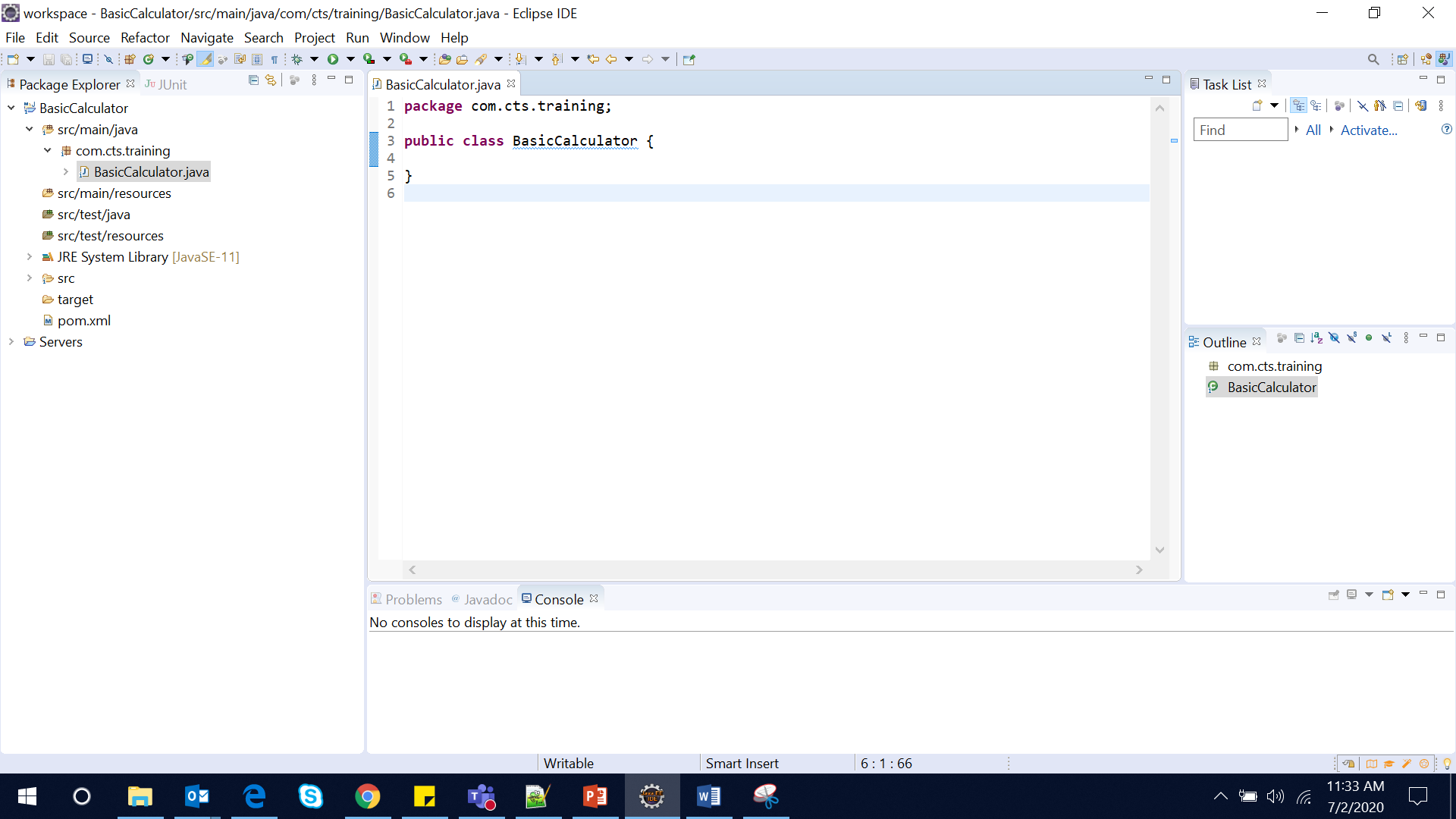
**ArtifactId** is the name of the jar without version. If you created it then you can choose whatever name you want with lowercase letters and no strange symbols. If it's a third party jar you have to take the name of the jar as it's distributed.

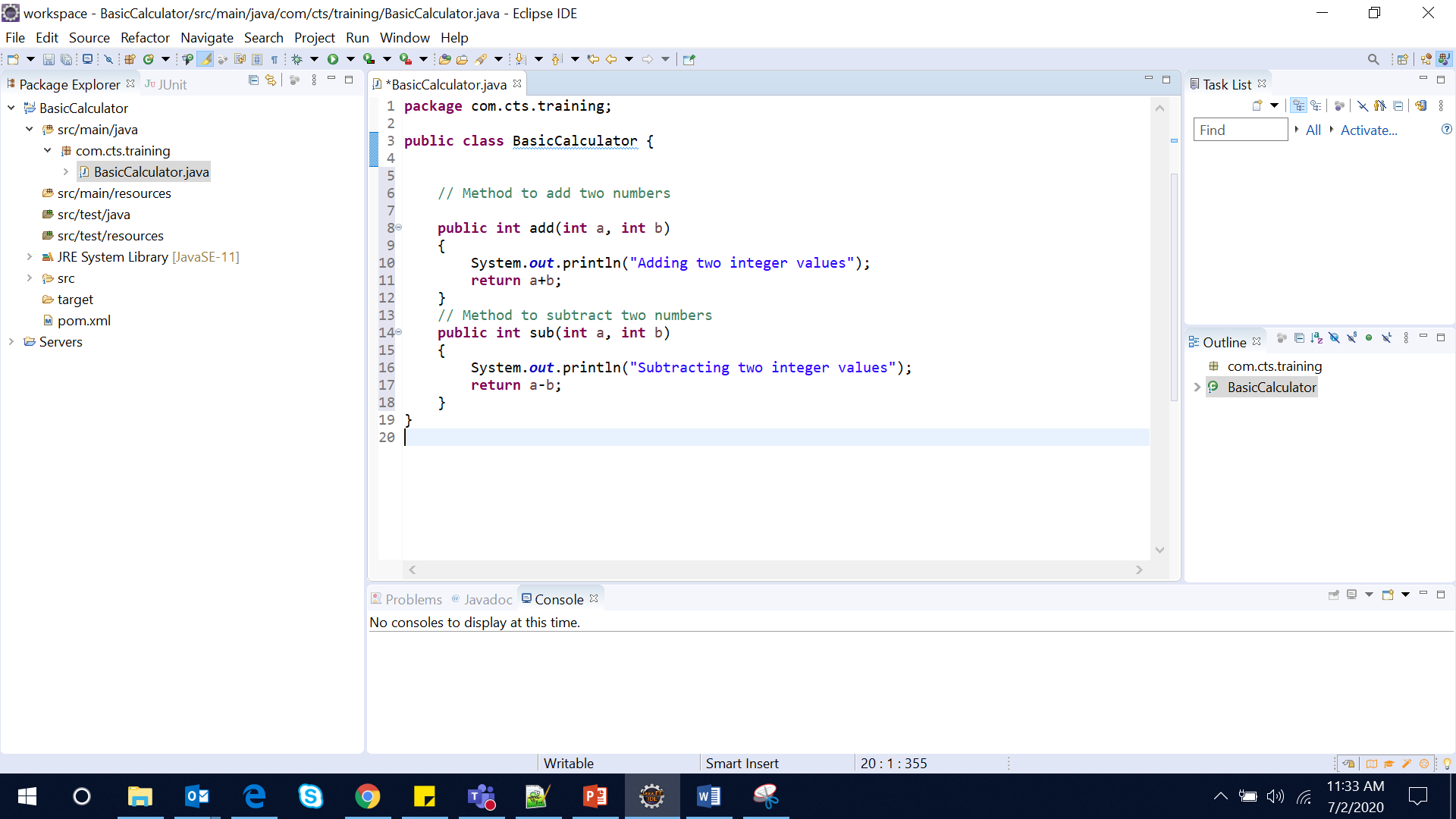


1. Create java class:

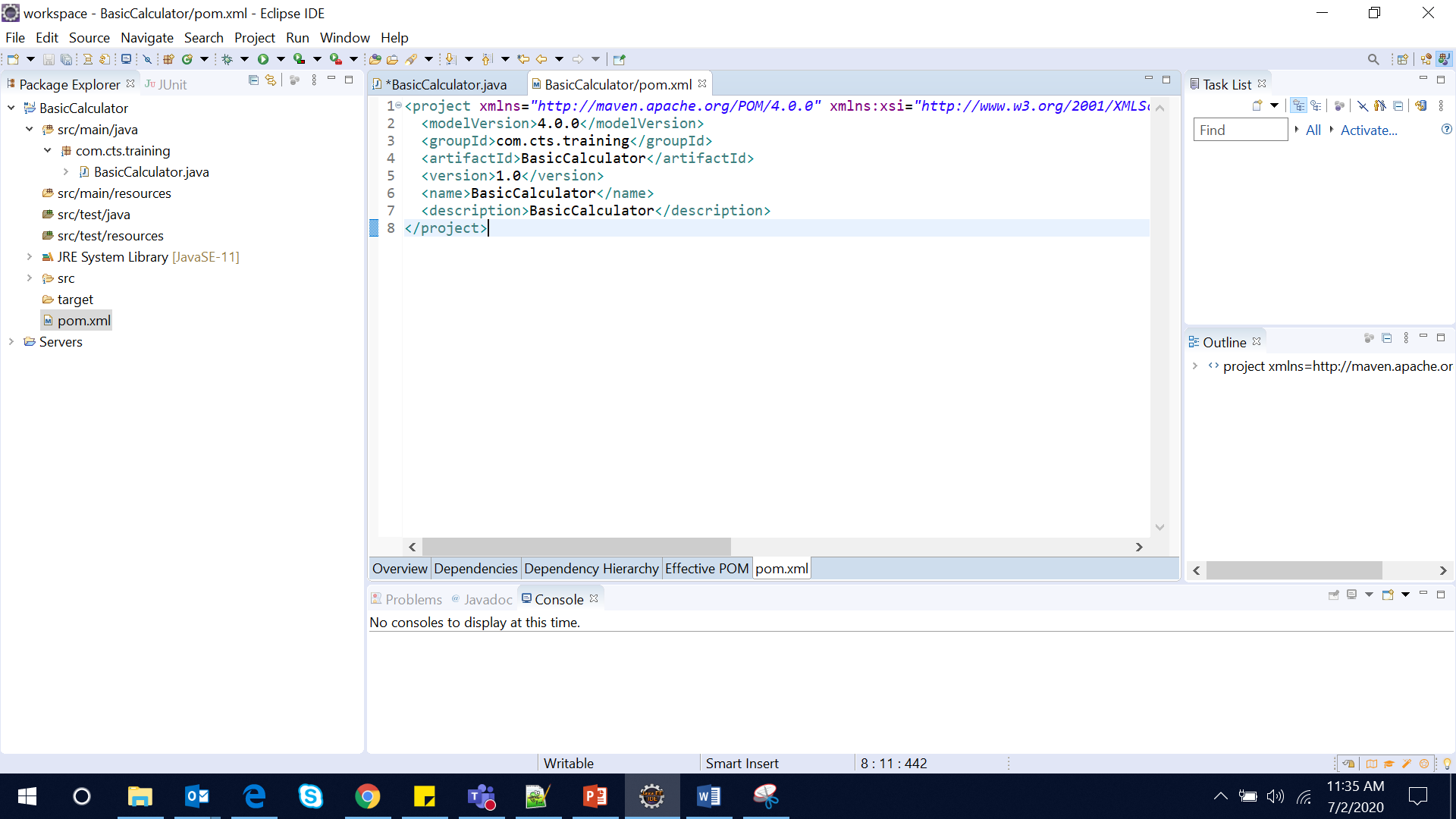


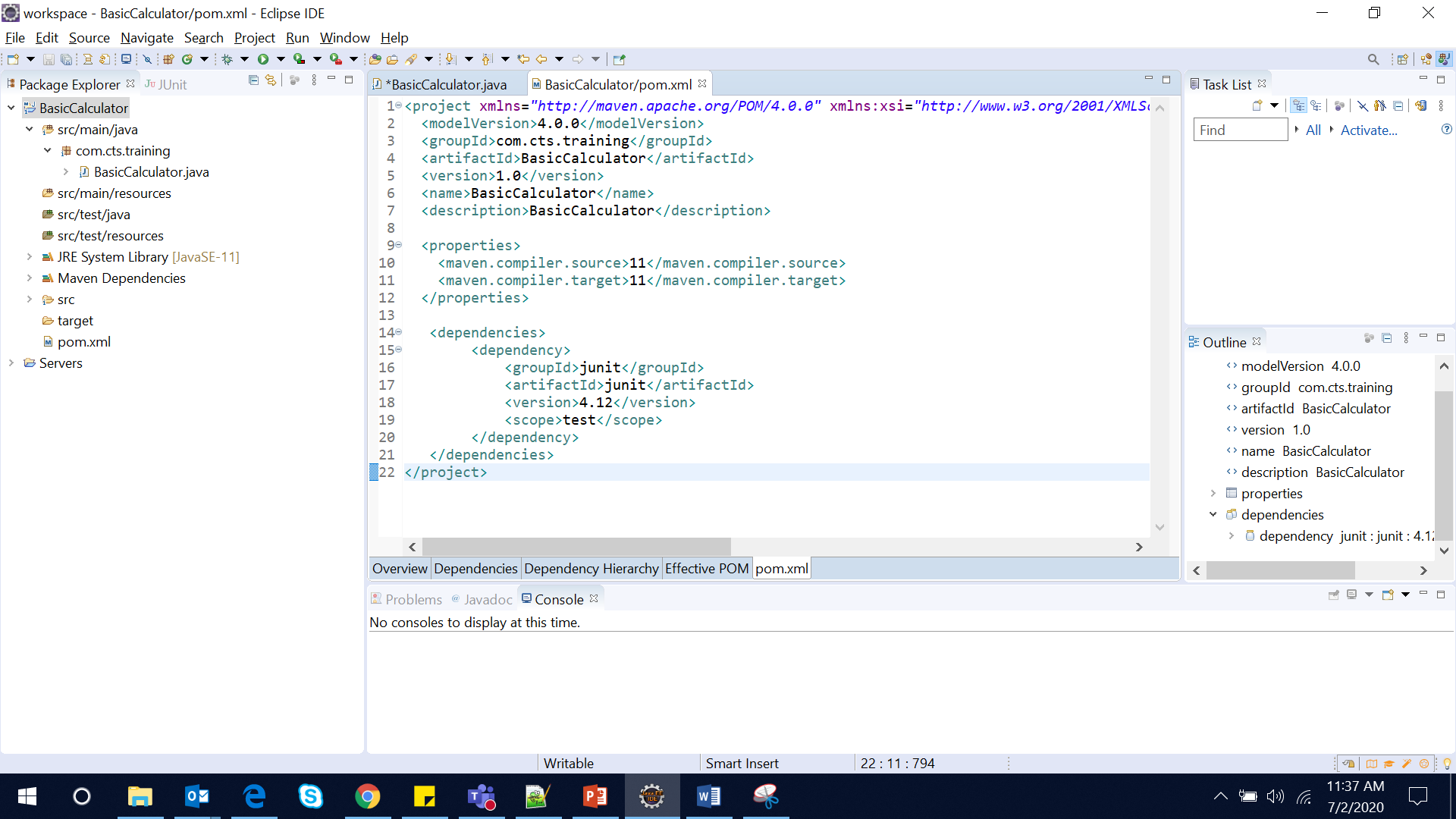




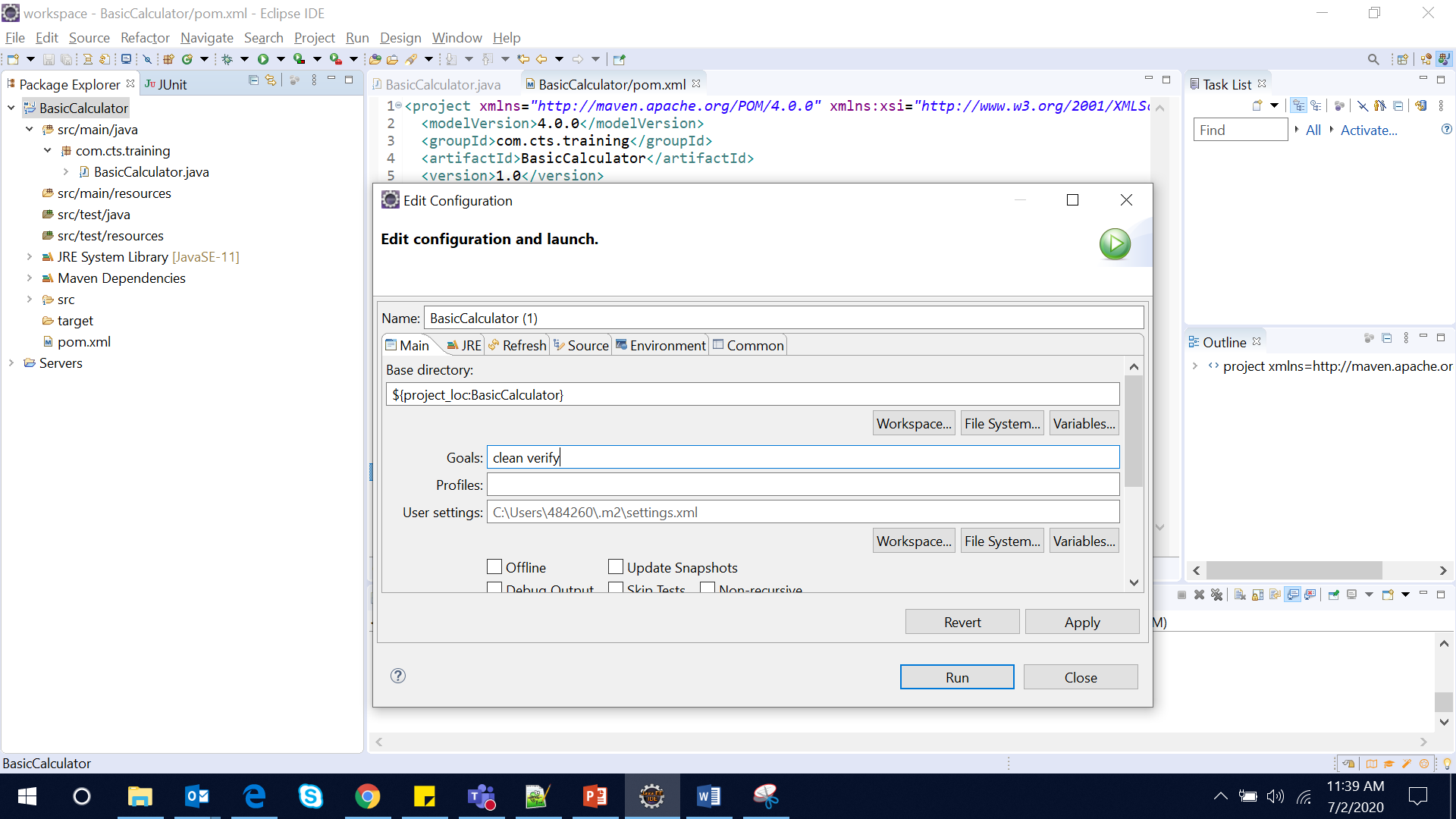


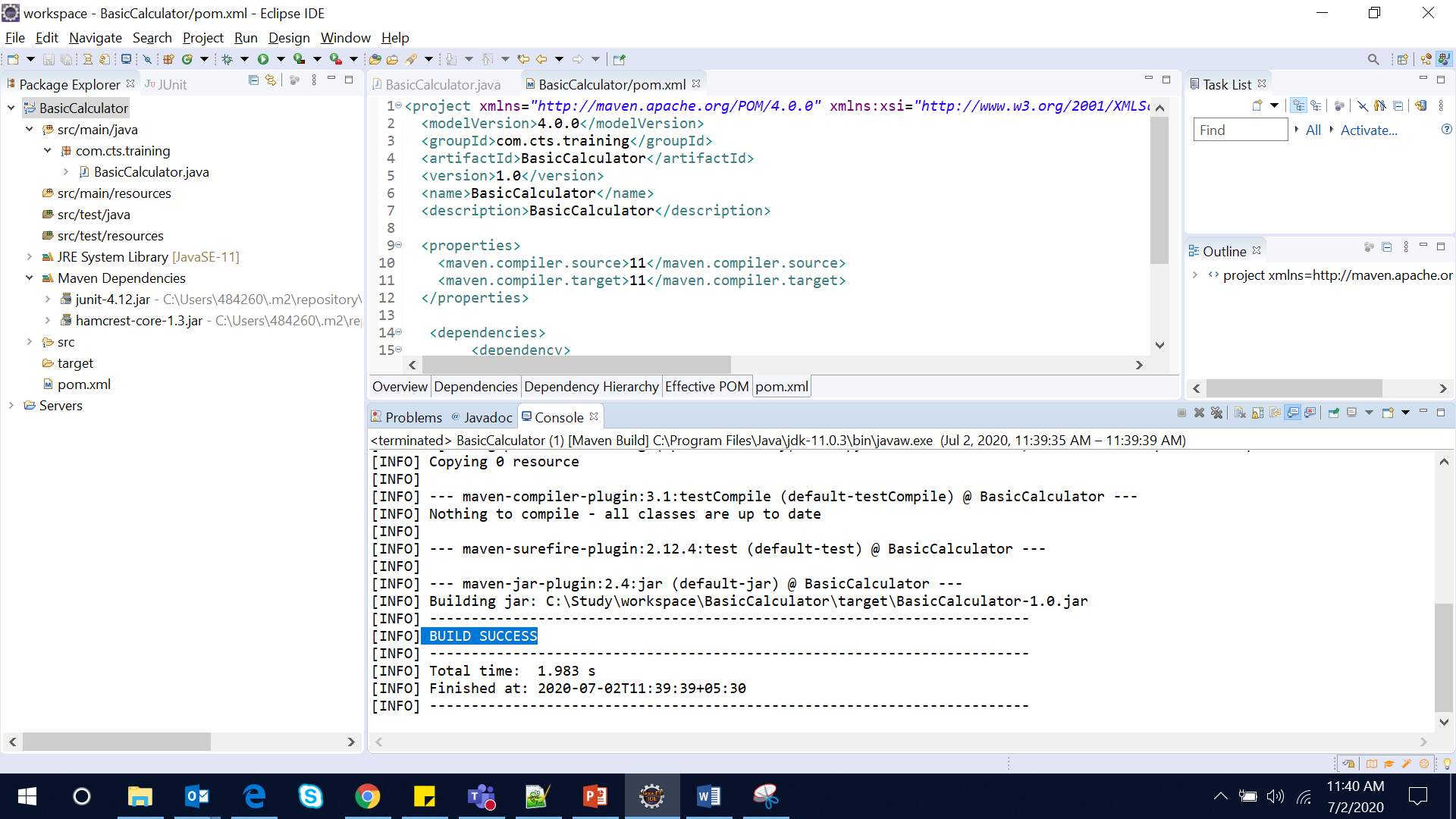
1. Update pom.xml with necessary dependencies:



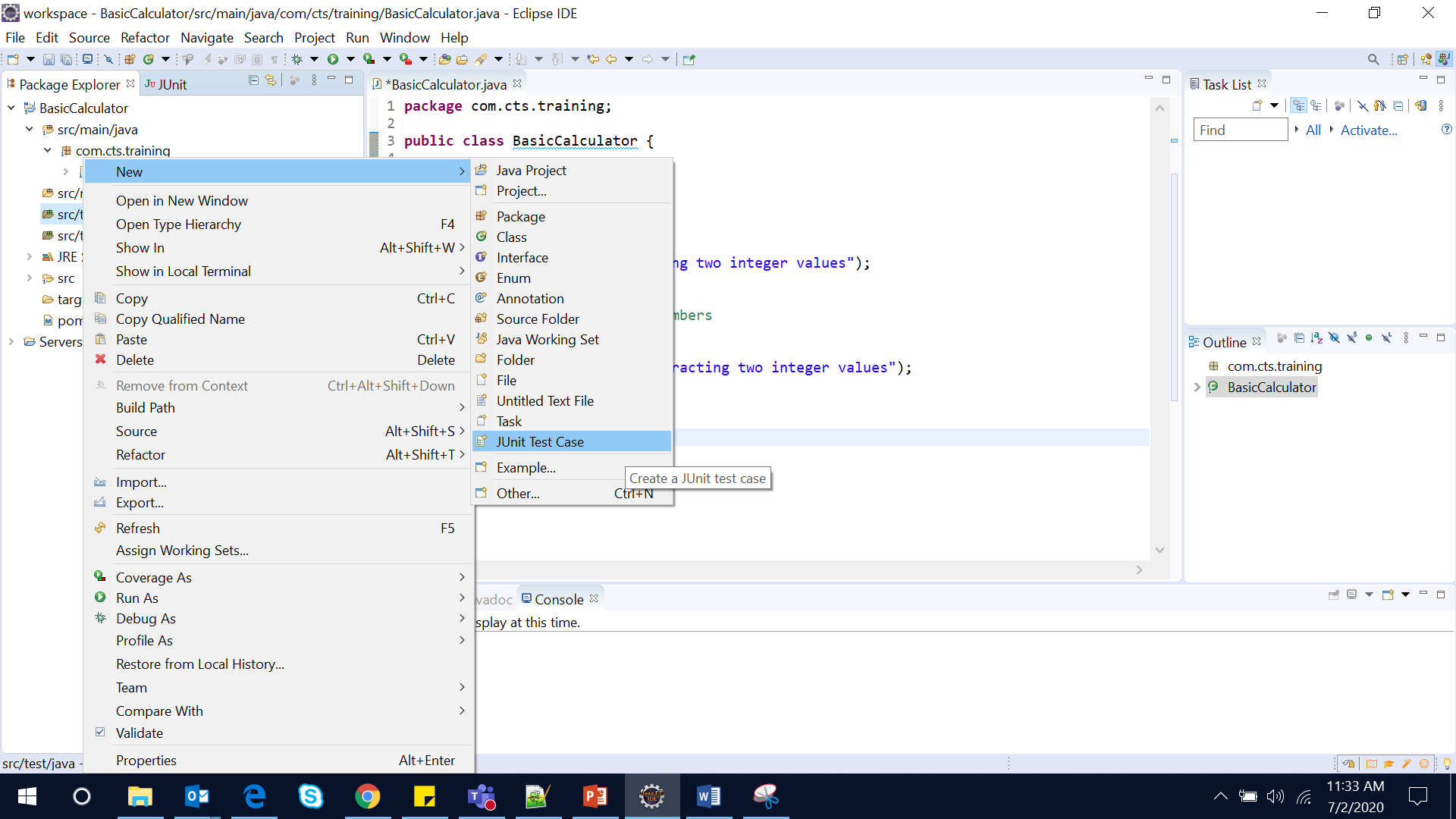


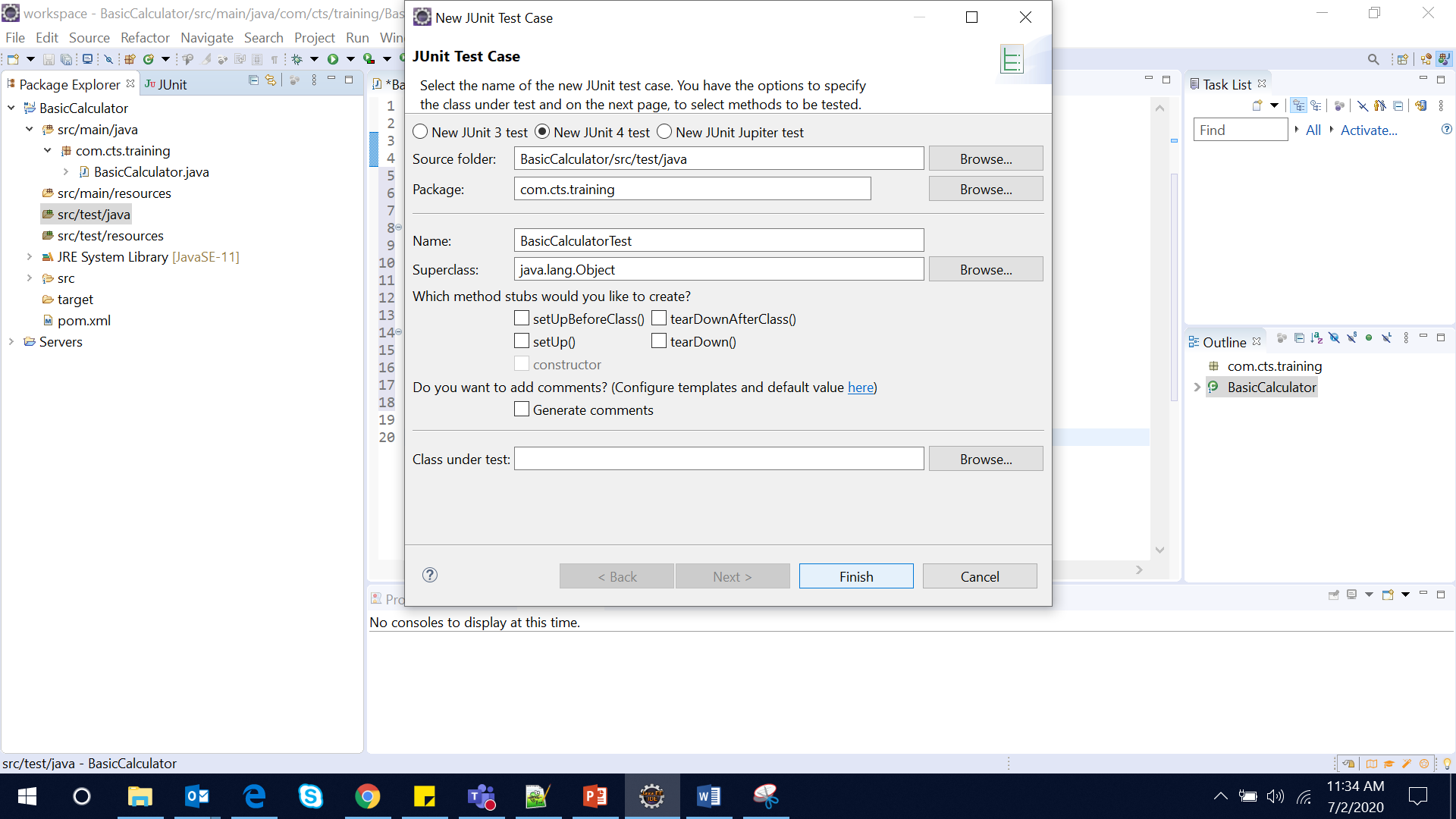
1. Create Run Configuration for Maven Build and click on Run:

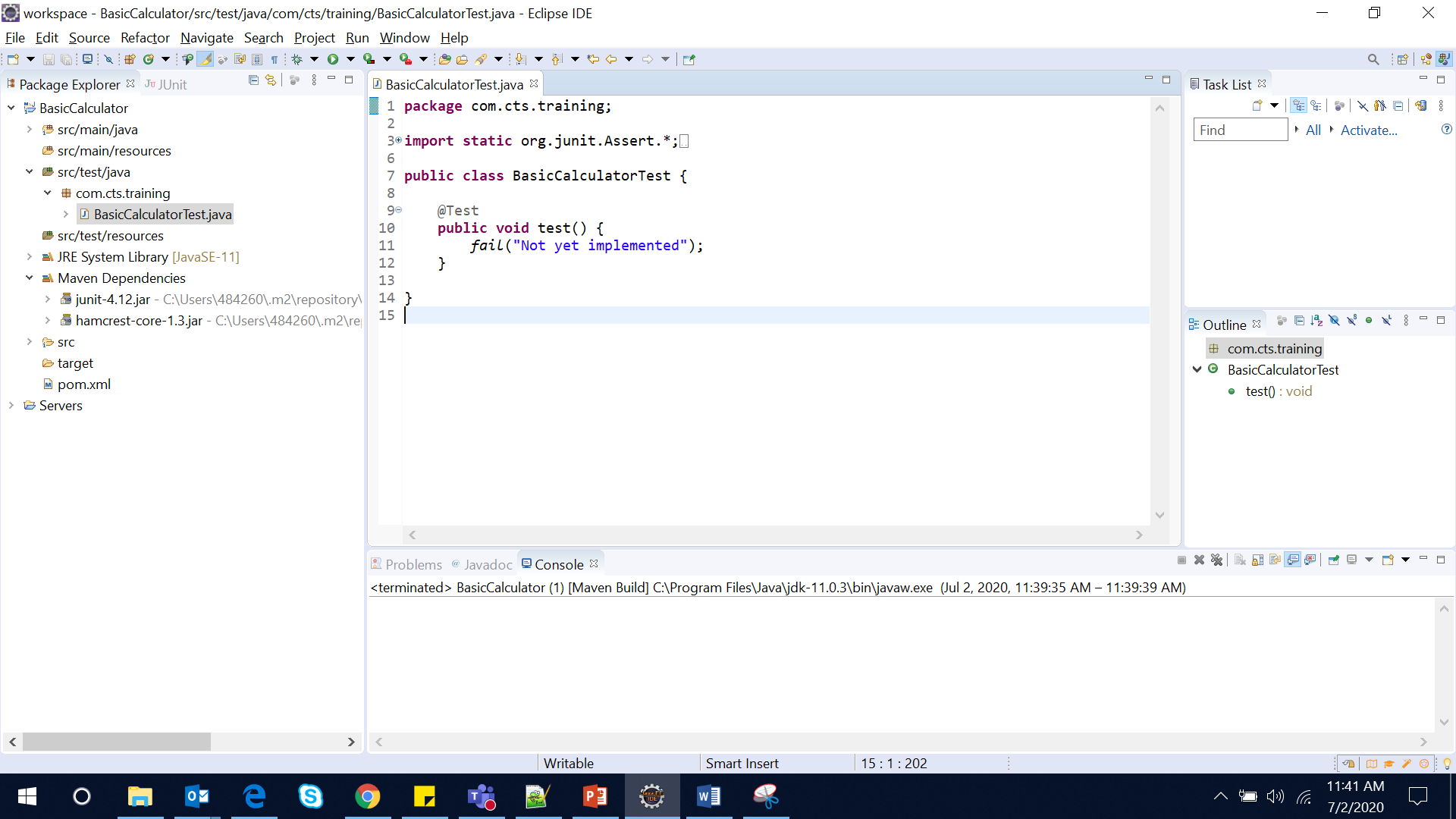


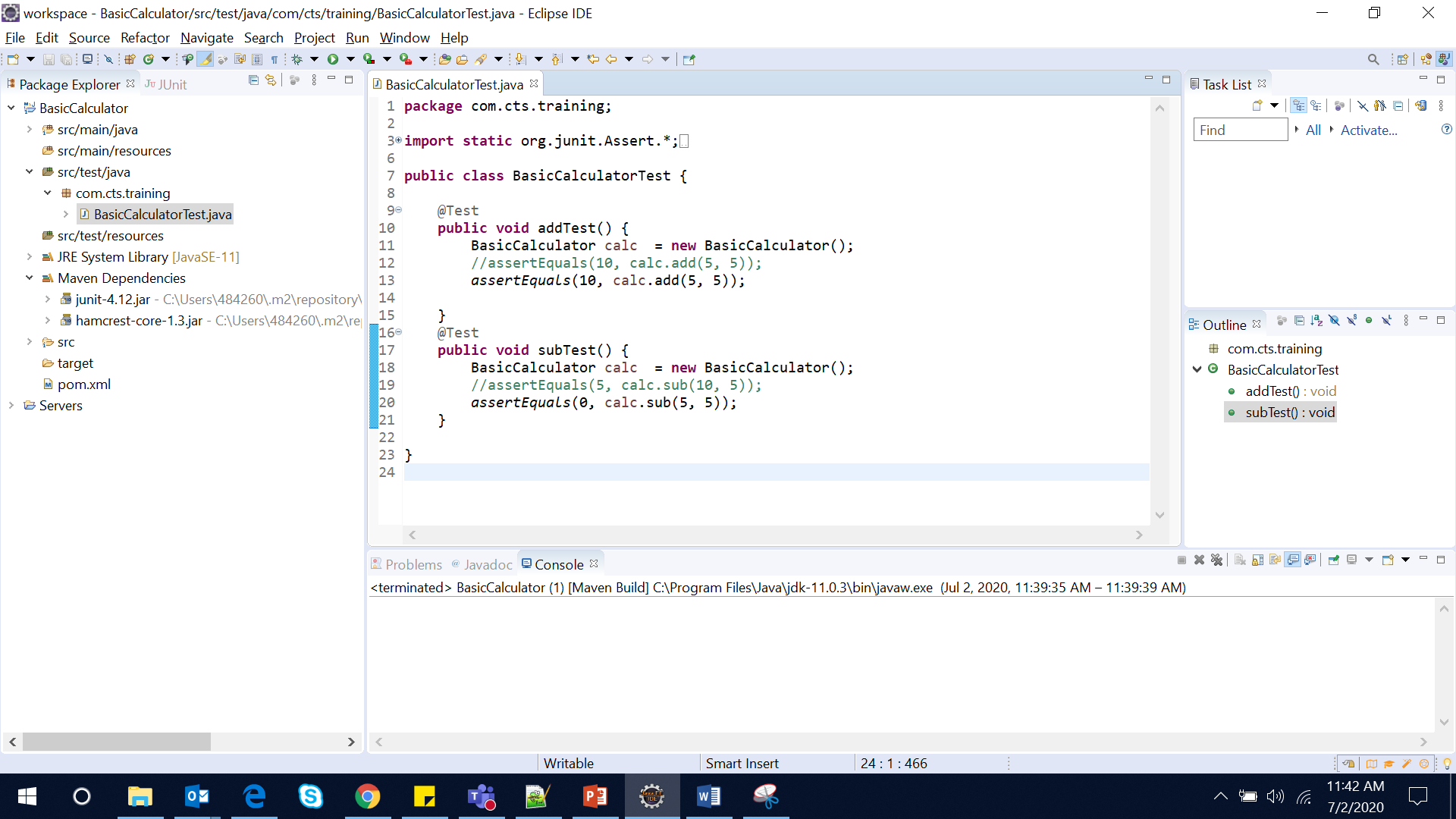


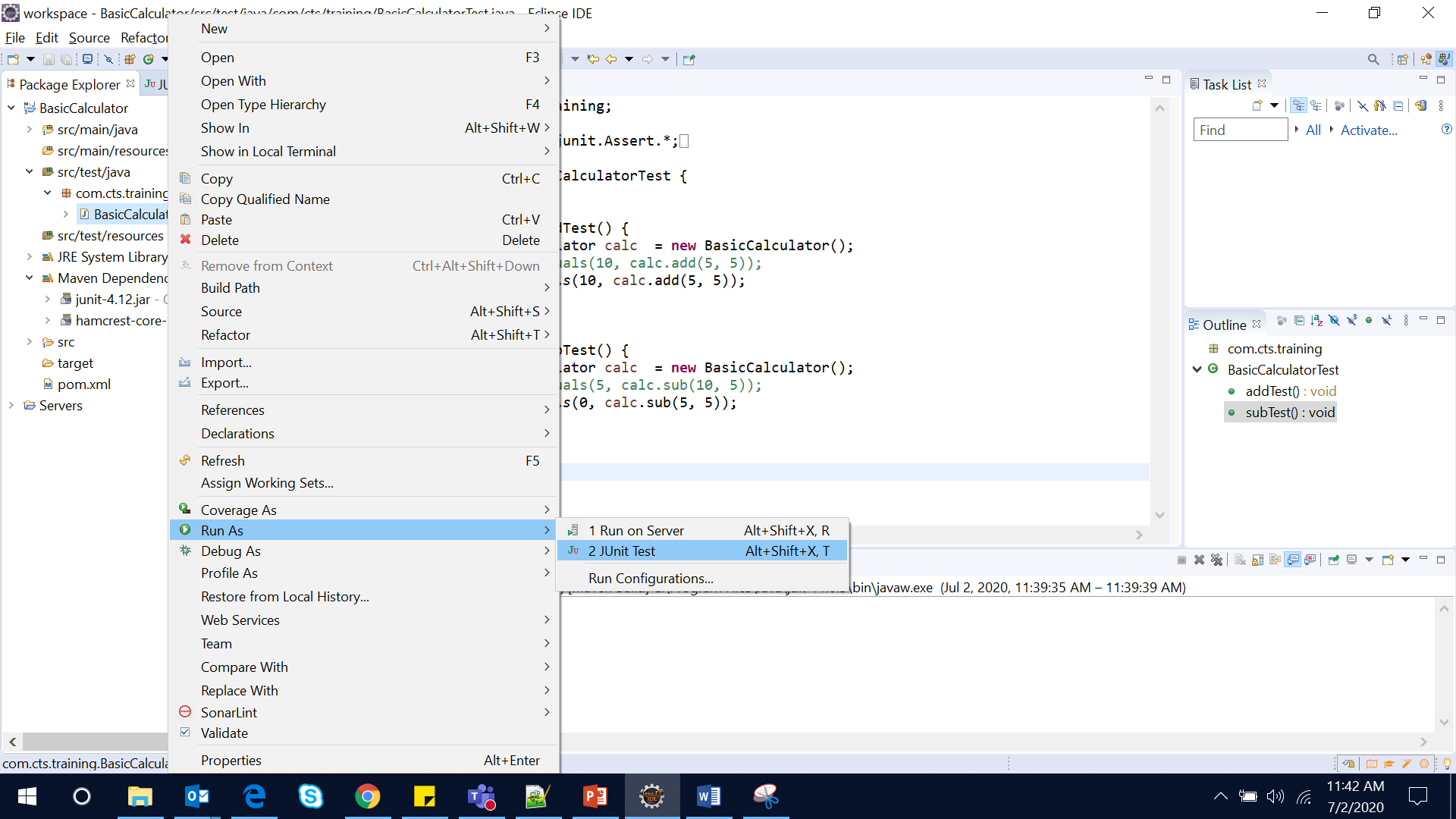
1. Create Junit Test Case:

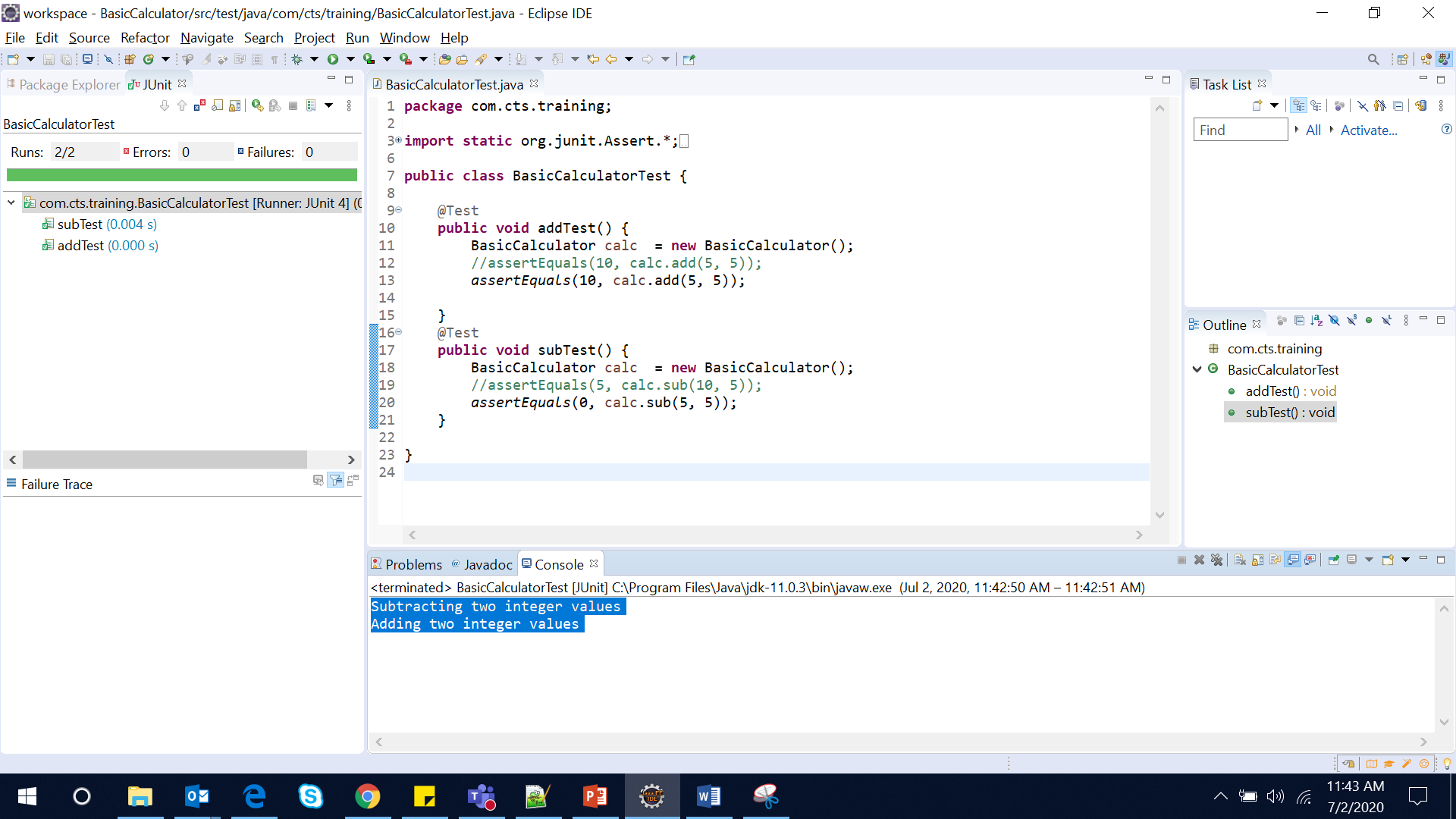




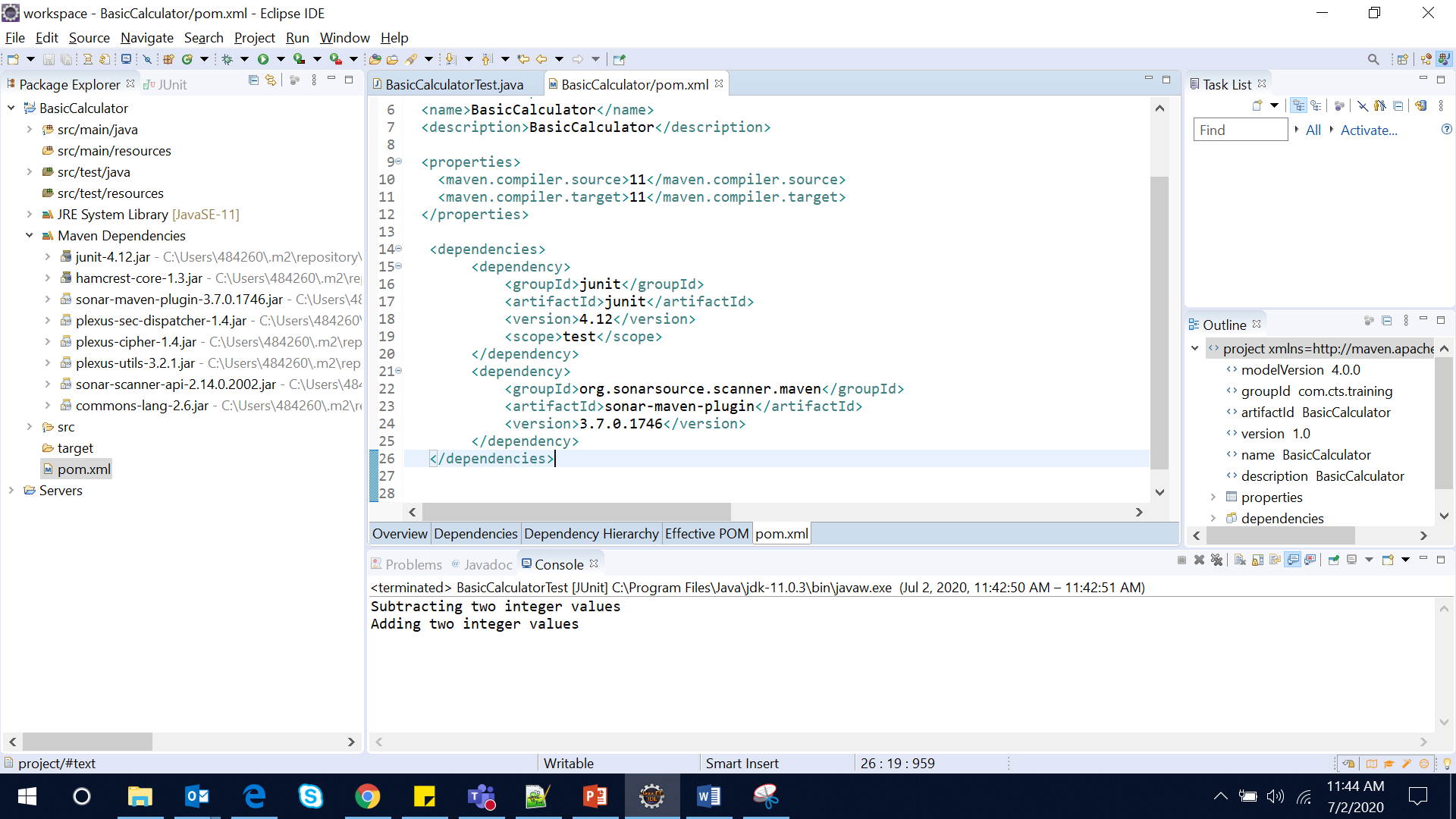


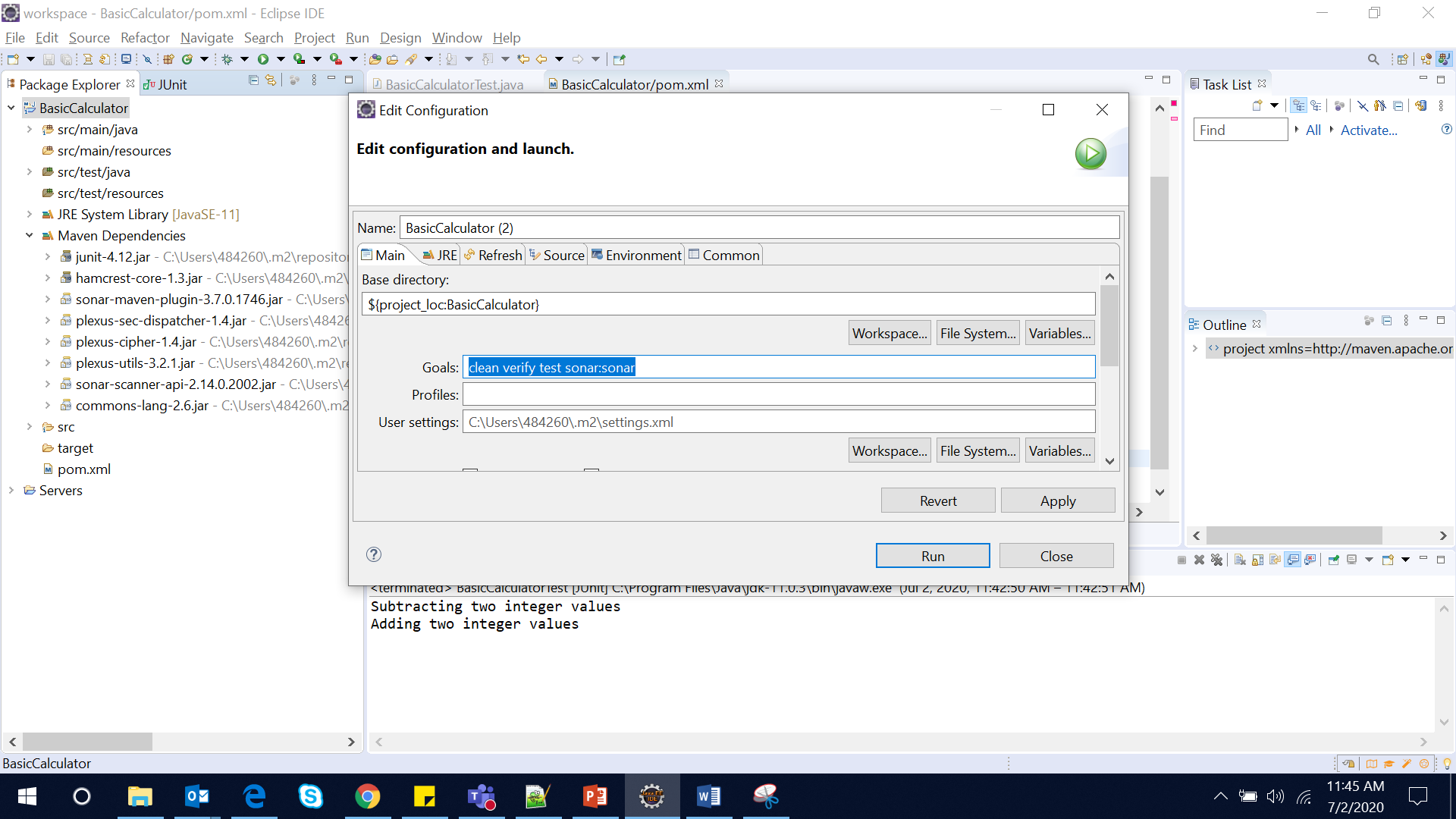


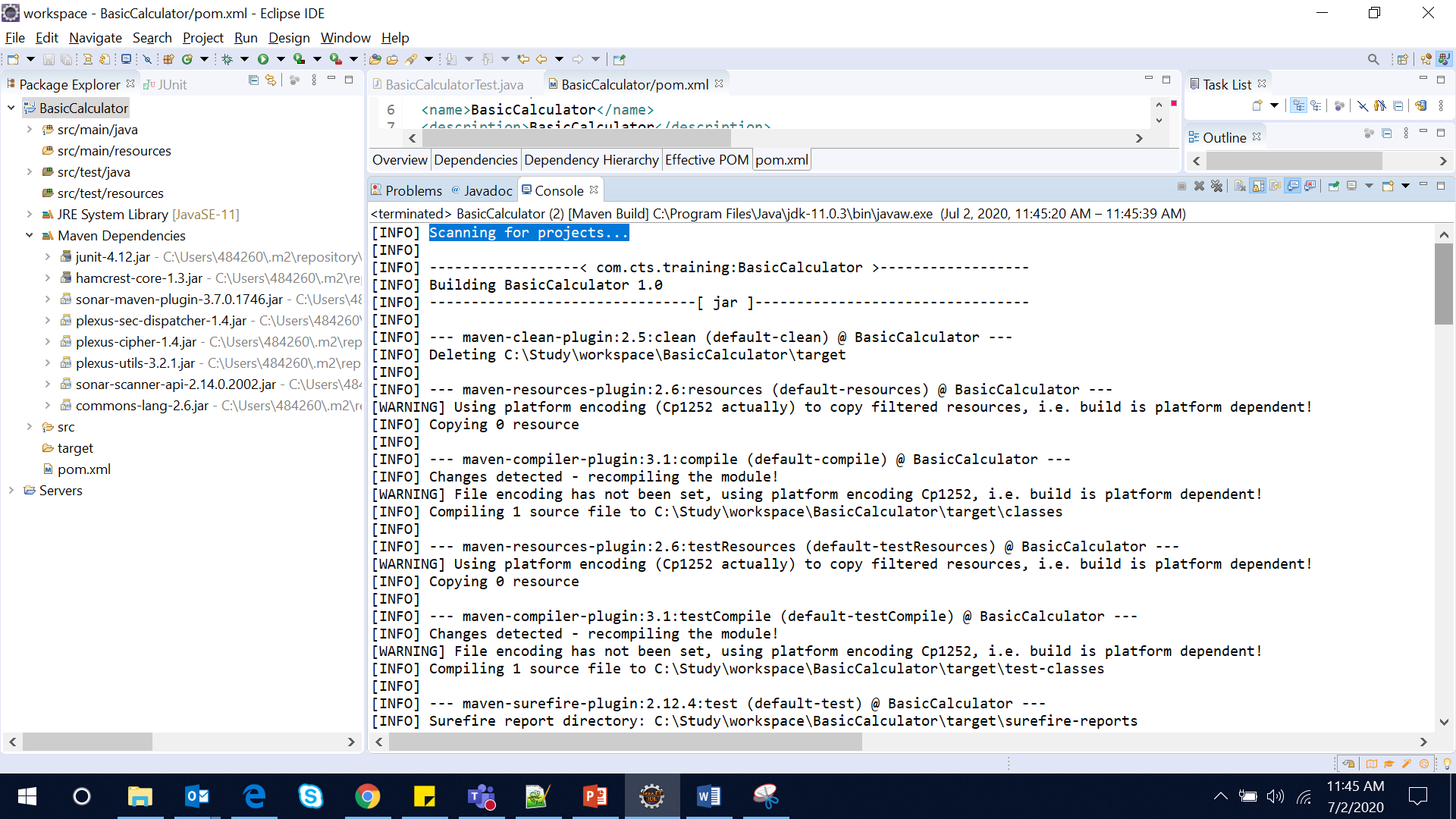


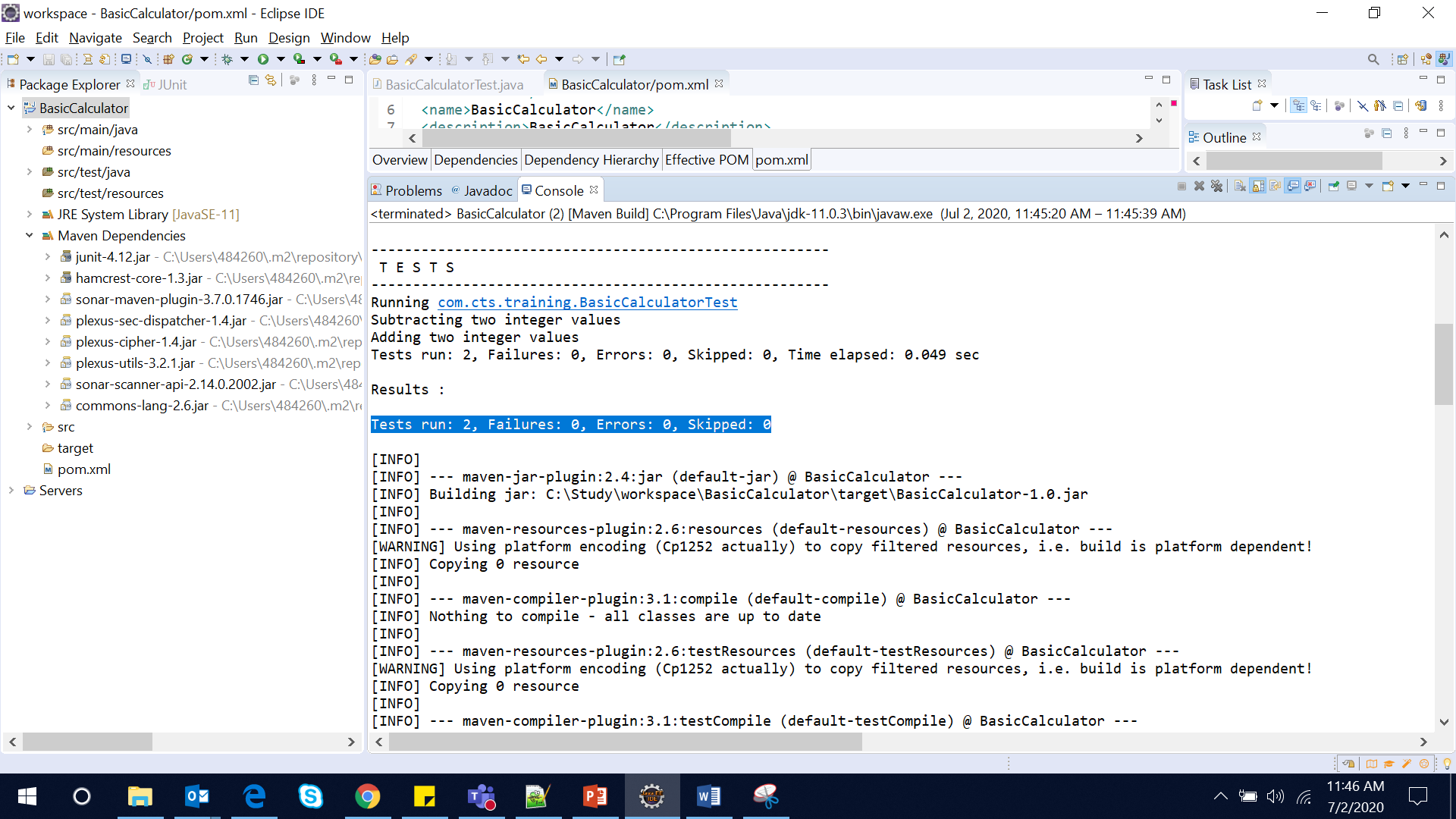


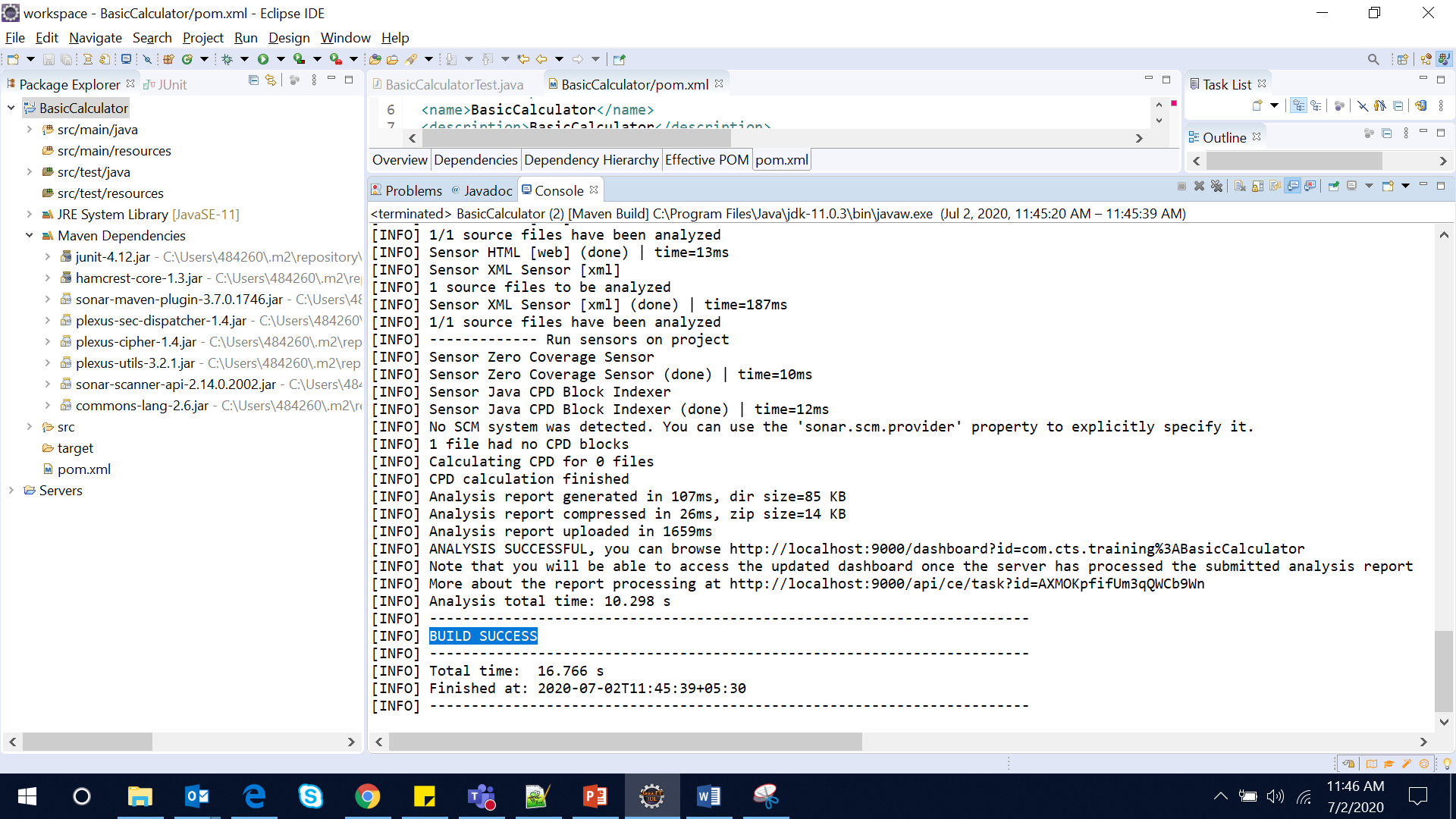
For Sonar:

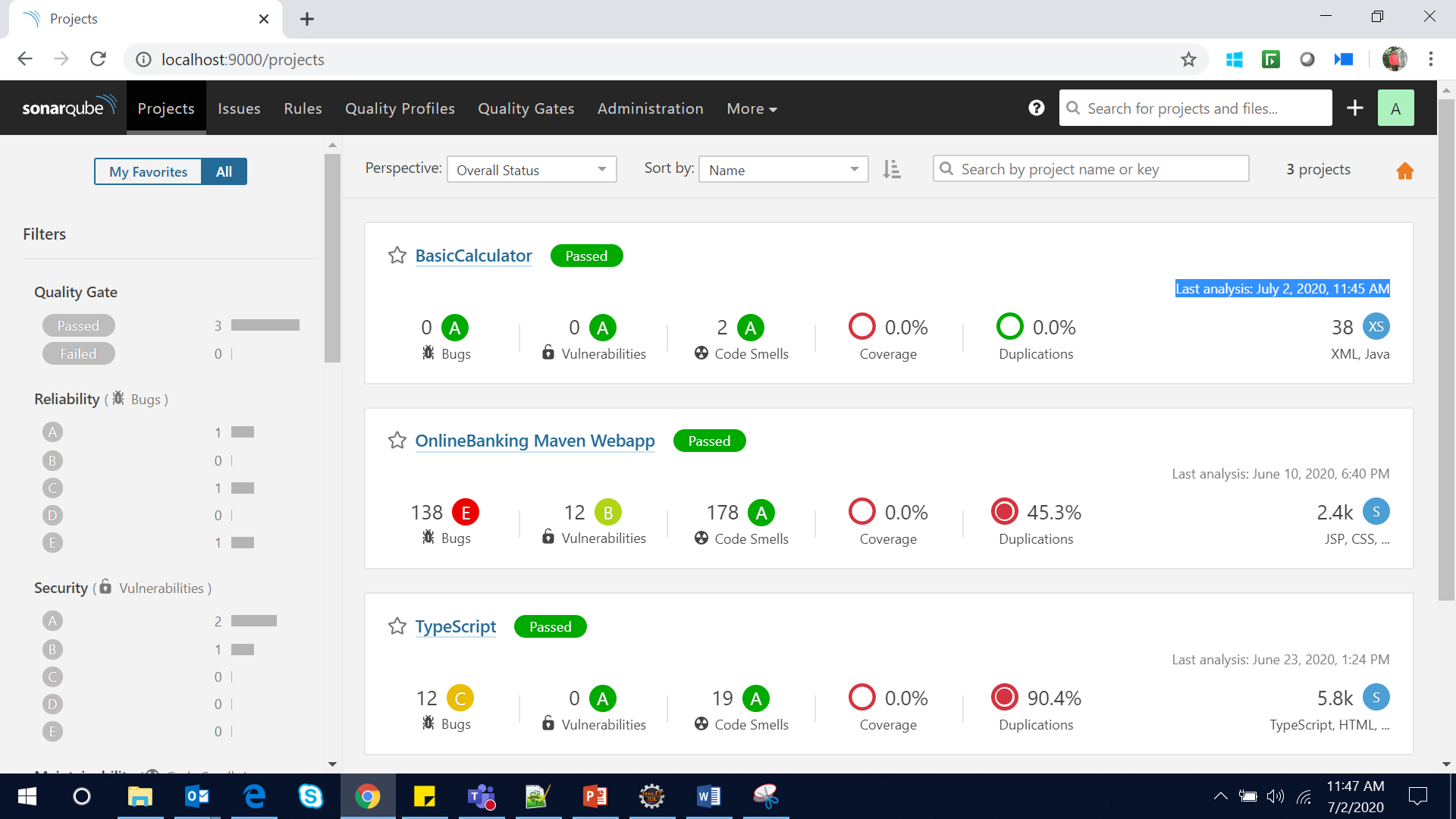


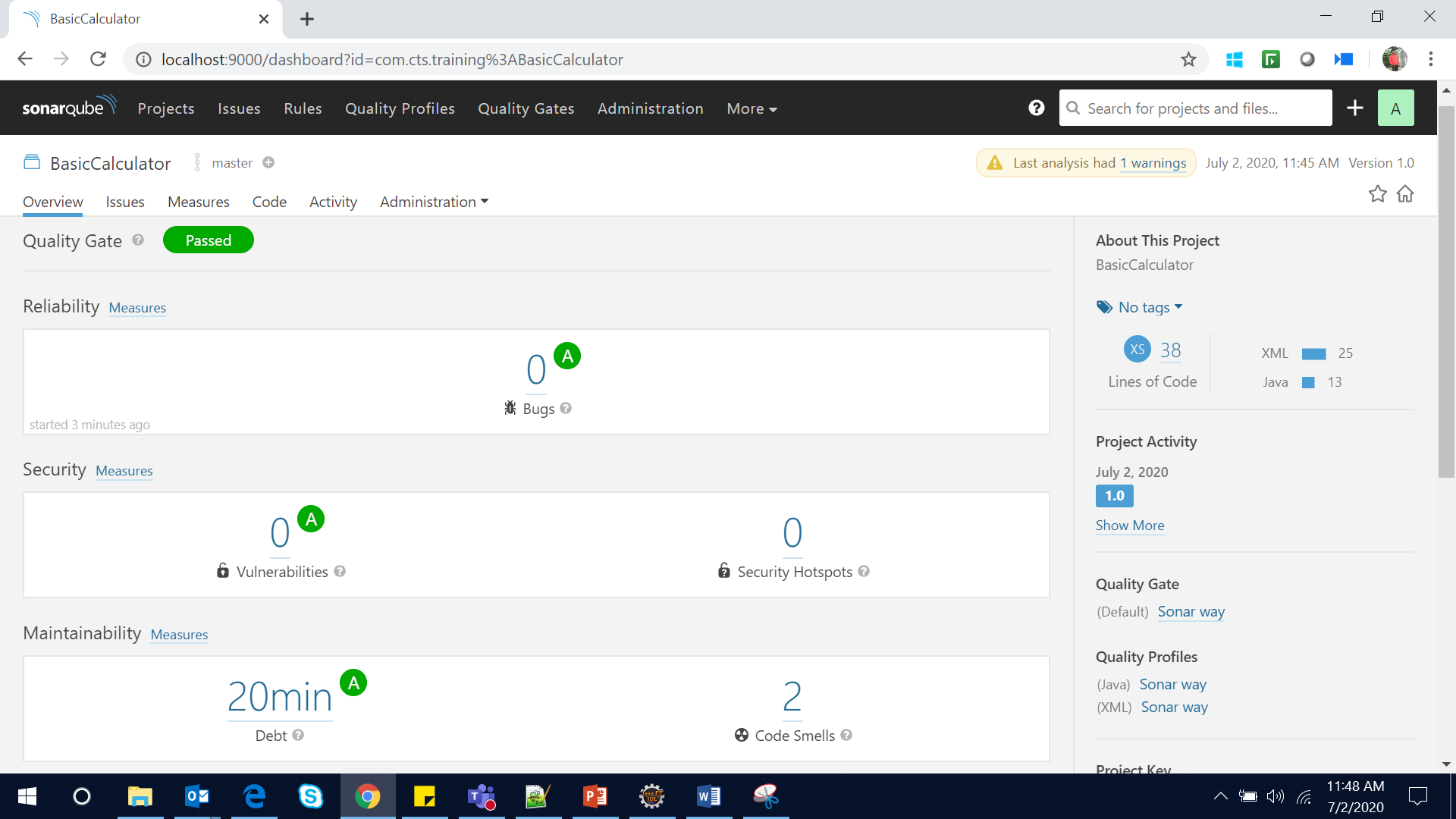


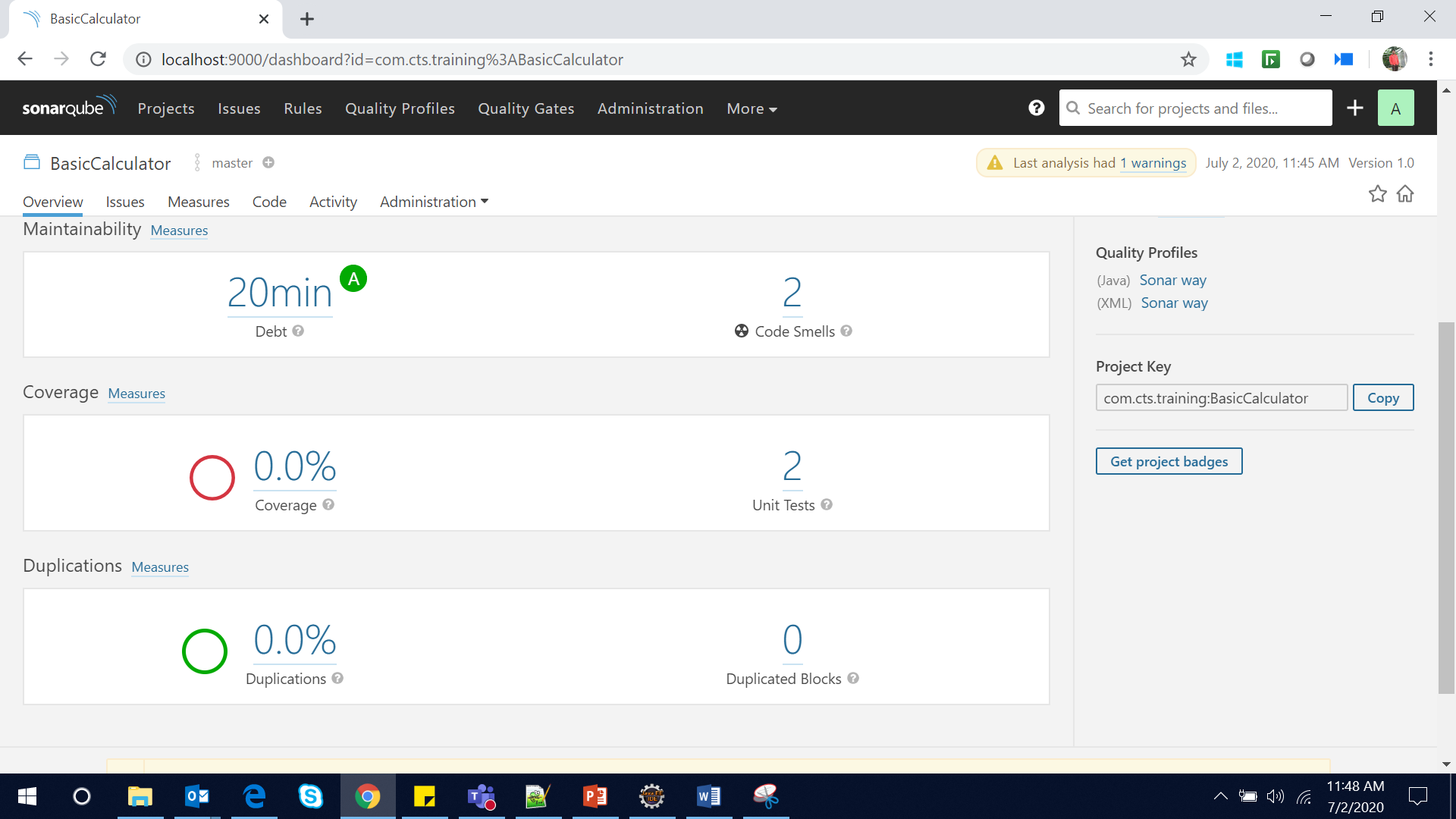


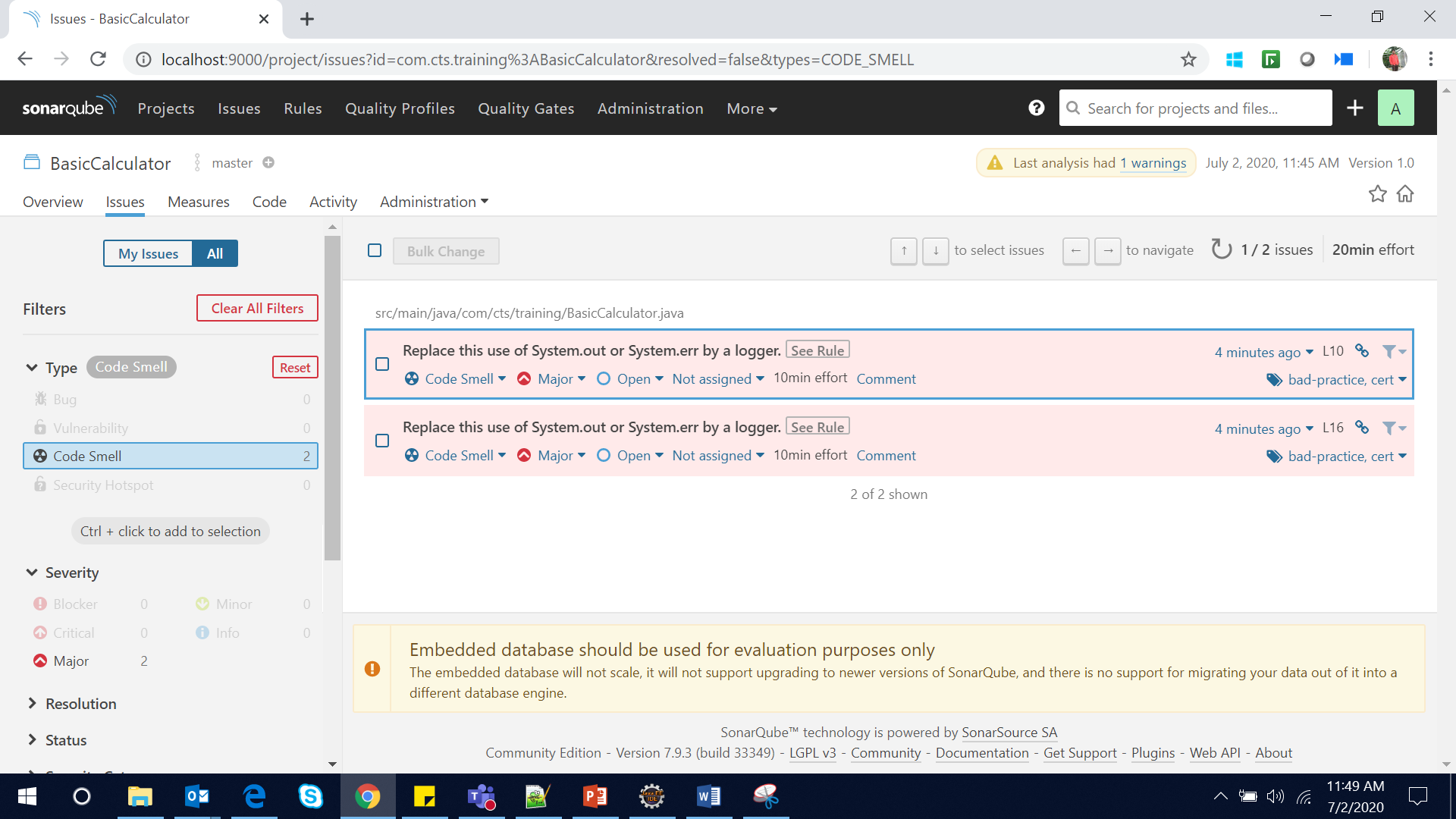


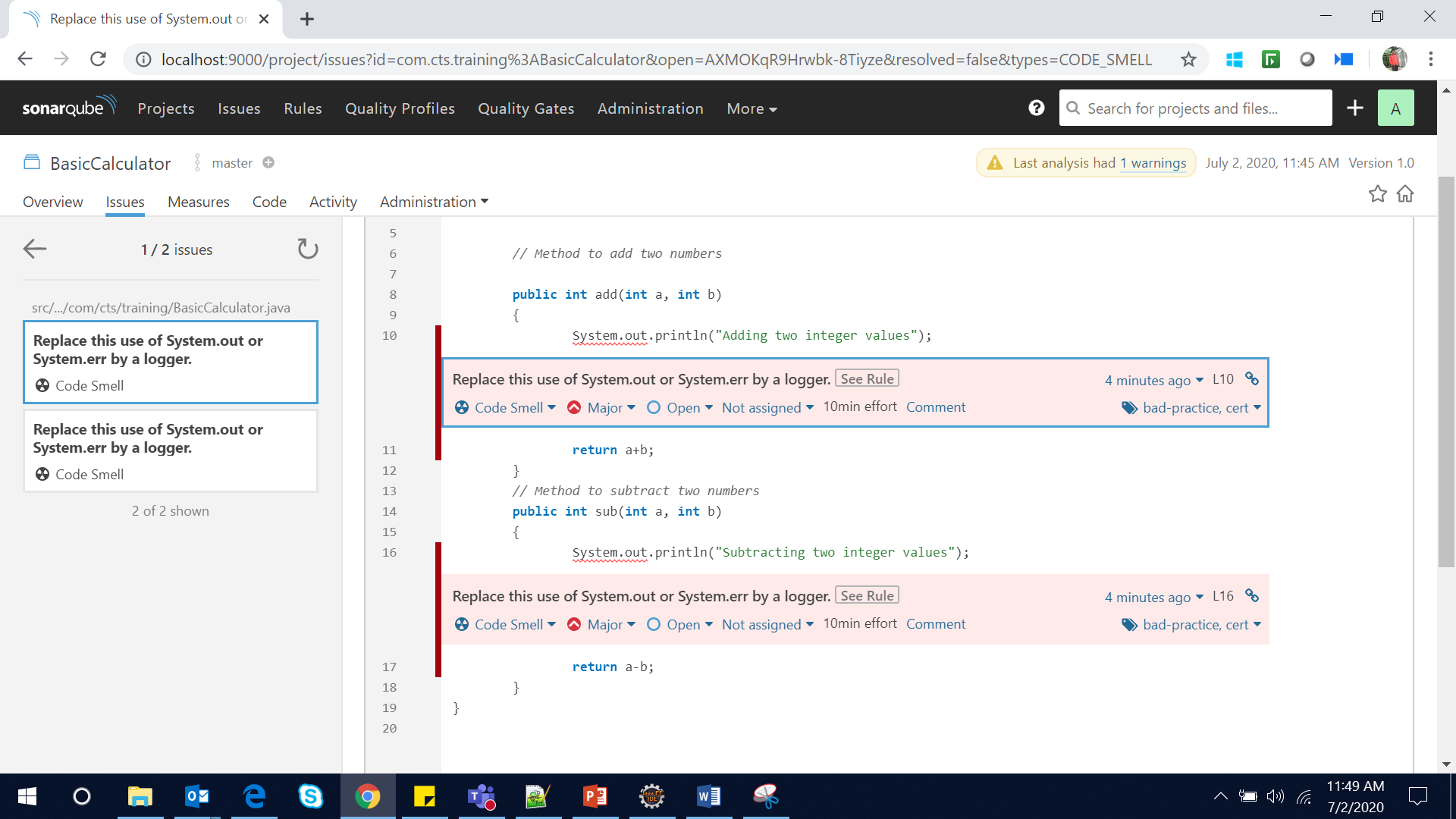












For CodeCoverage:

JACOCO:

