## Maven-Whole Practice Assignment

Create a first maven project, build a jar run the application locally & develop the environment add new dependencies to the project & run the tests.

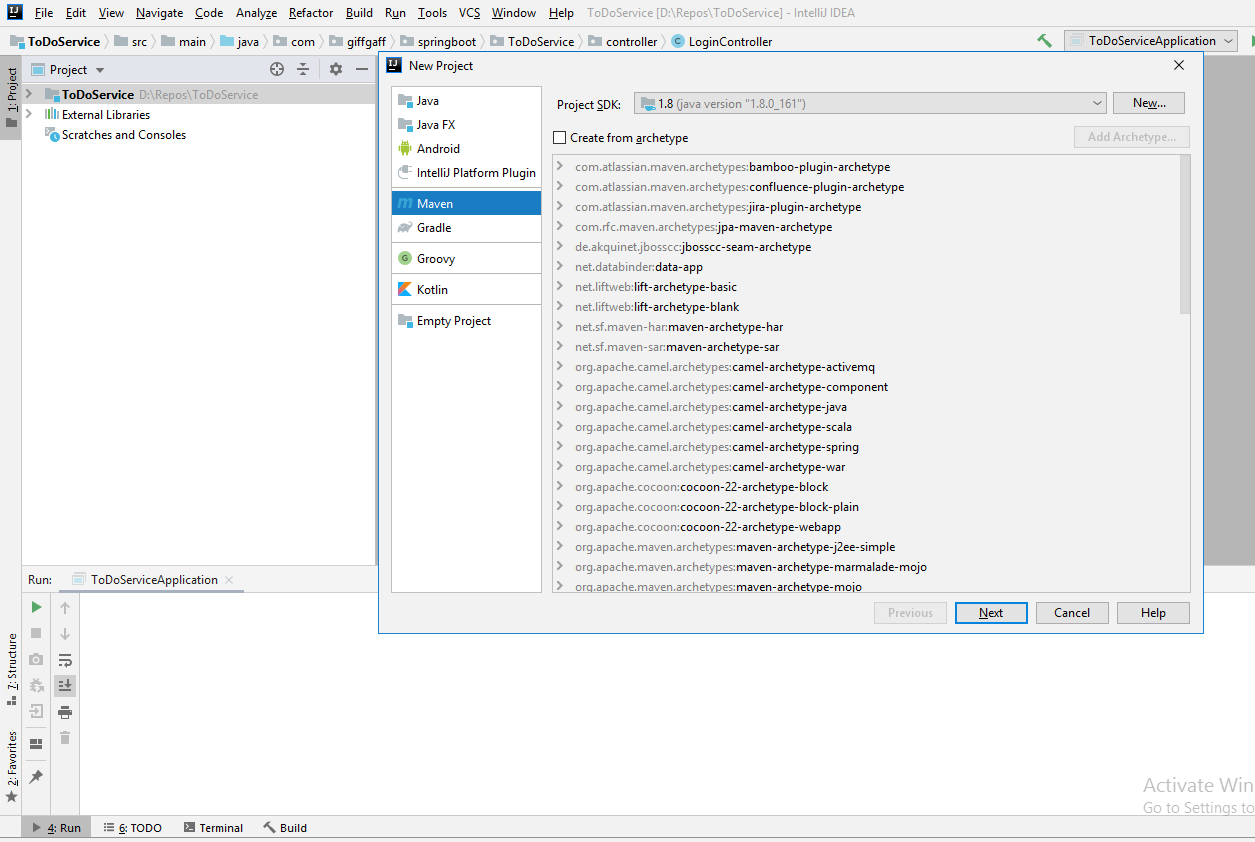
Edit the POM file include the hibernate to perform transitive dependencies & then exclude that dependency.

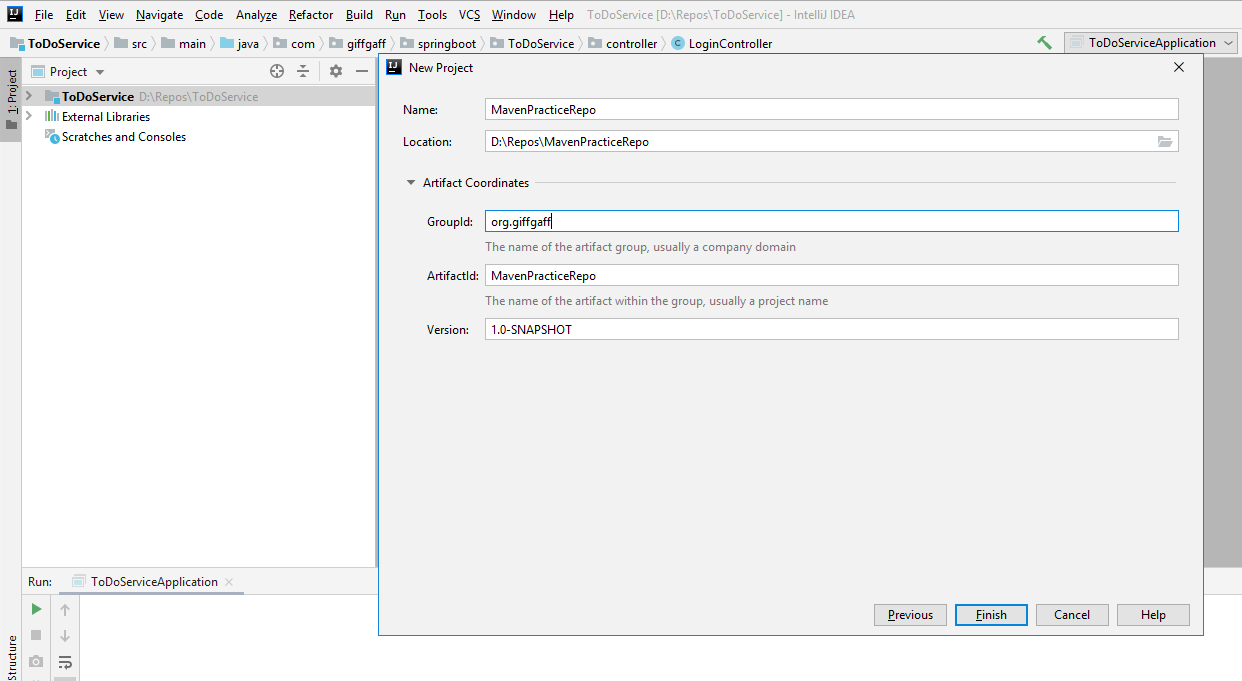
Create a multi-layer project with maven & specify the dependency in that & Show the best practices to maintain the multi-module maven project.

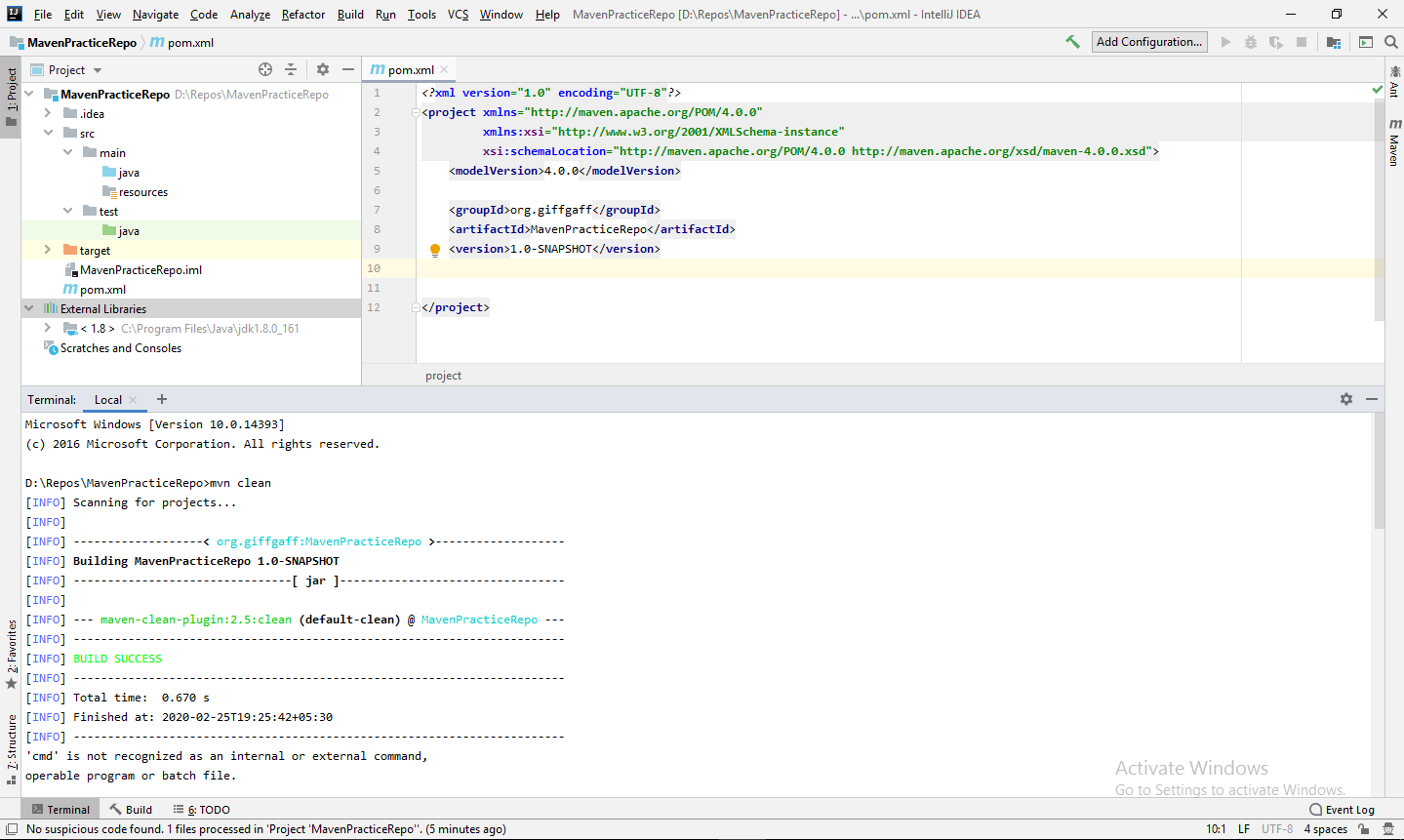
Run some important commands useful while debugging the project & perform maven archetype plug-in to generate sample projects.

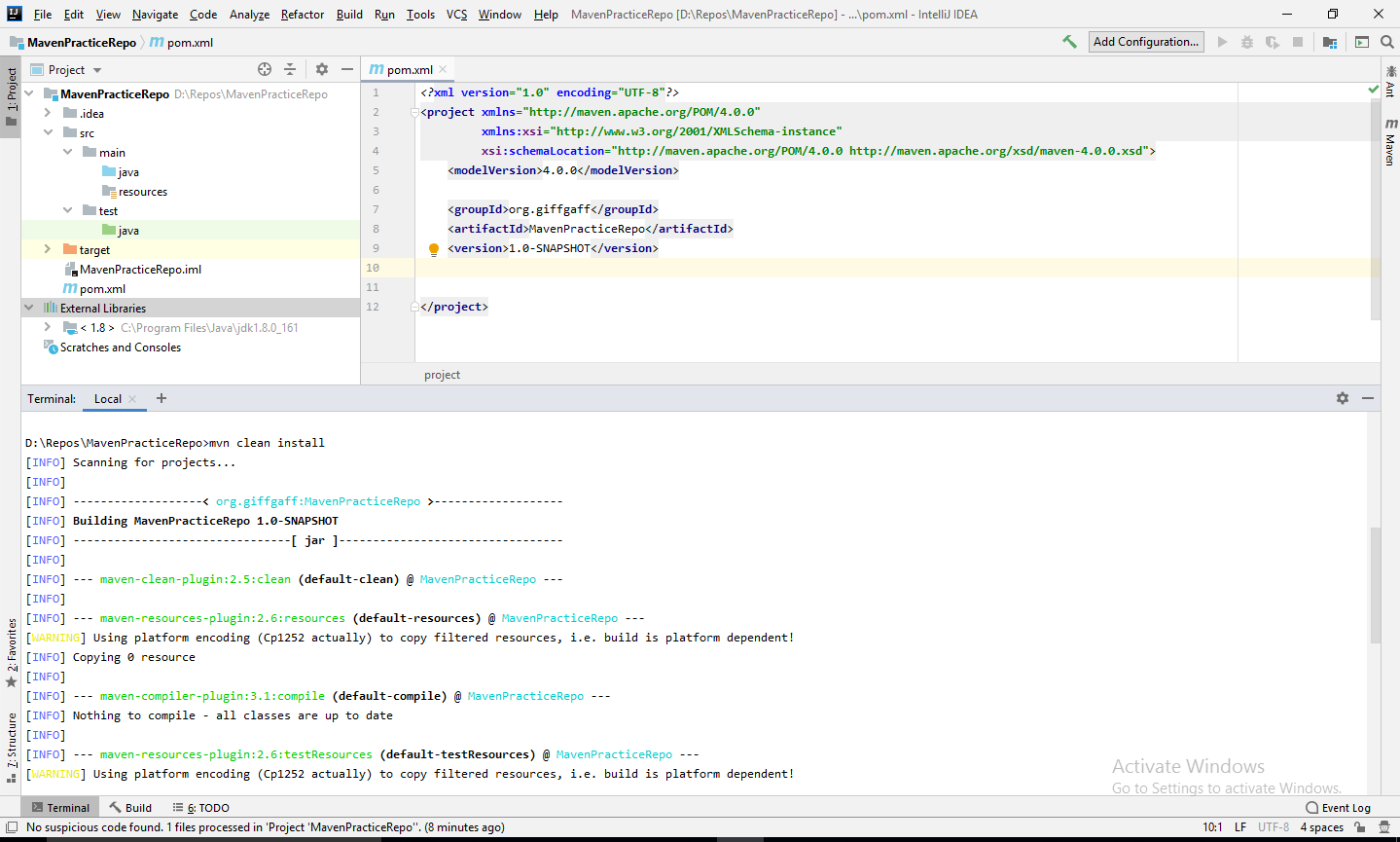
**Solution:**

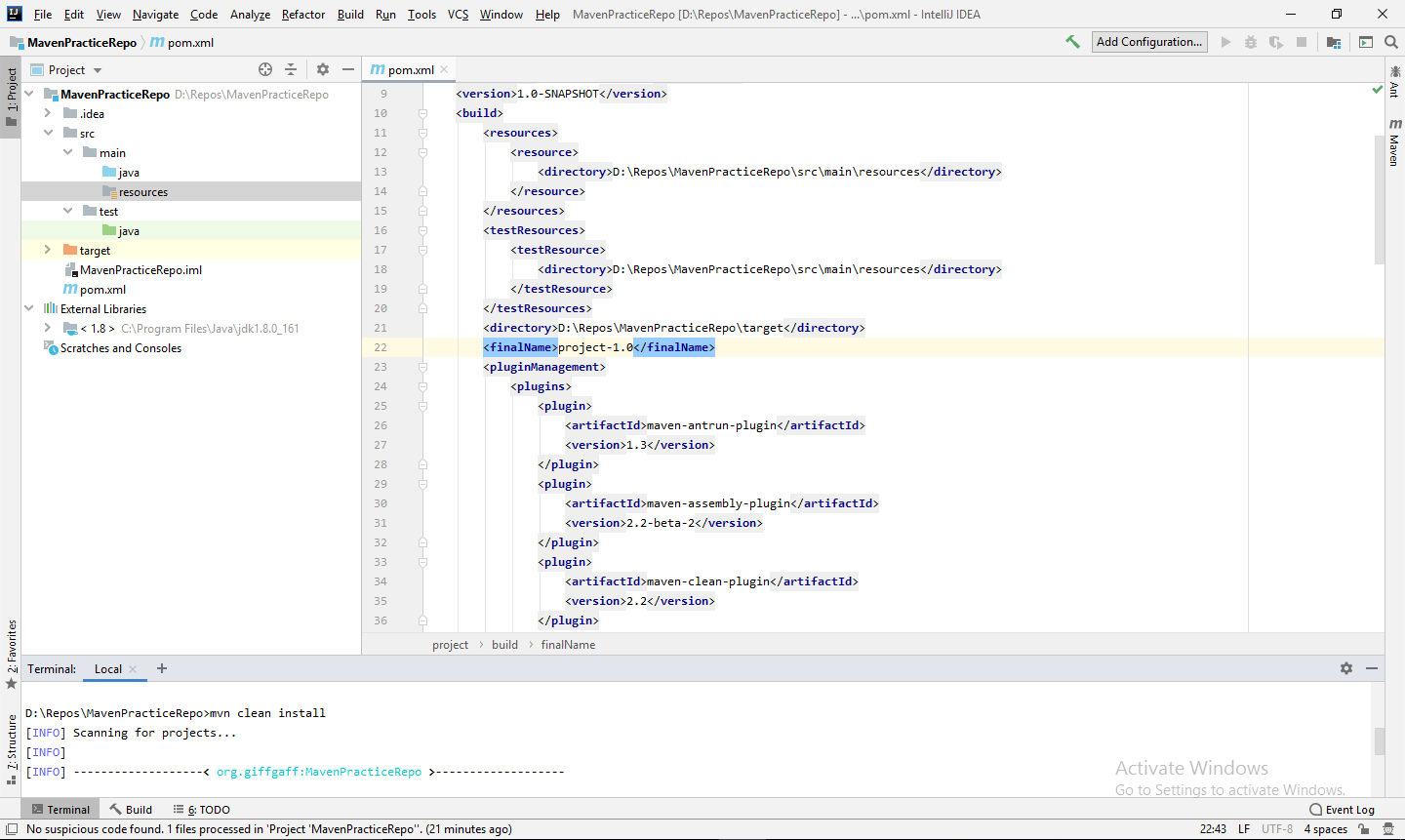
1. Create a first maven project, build a jar run the application locally & develop the environment add new dependencies to the project & run the tests.

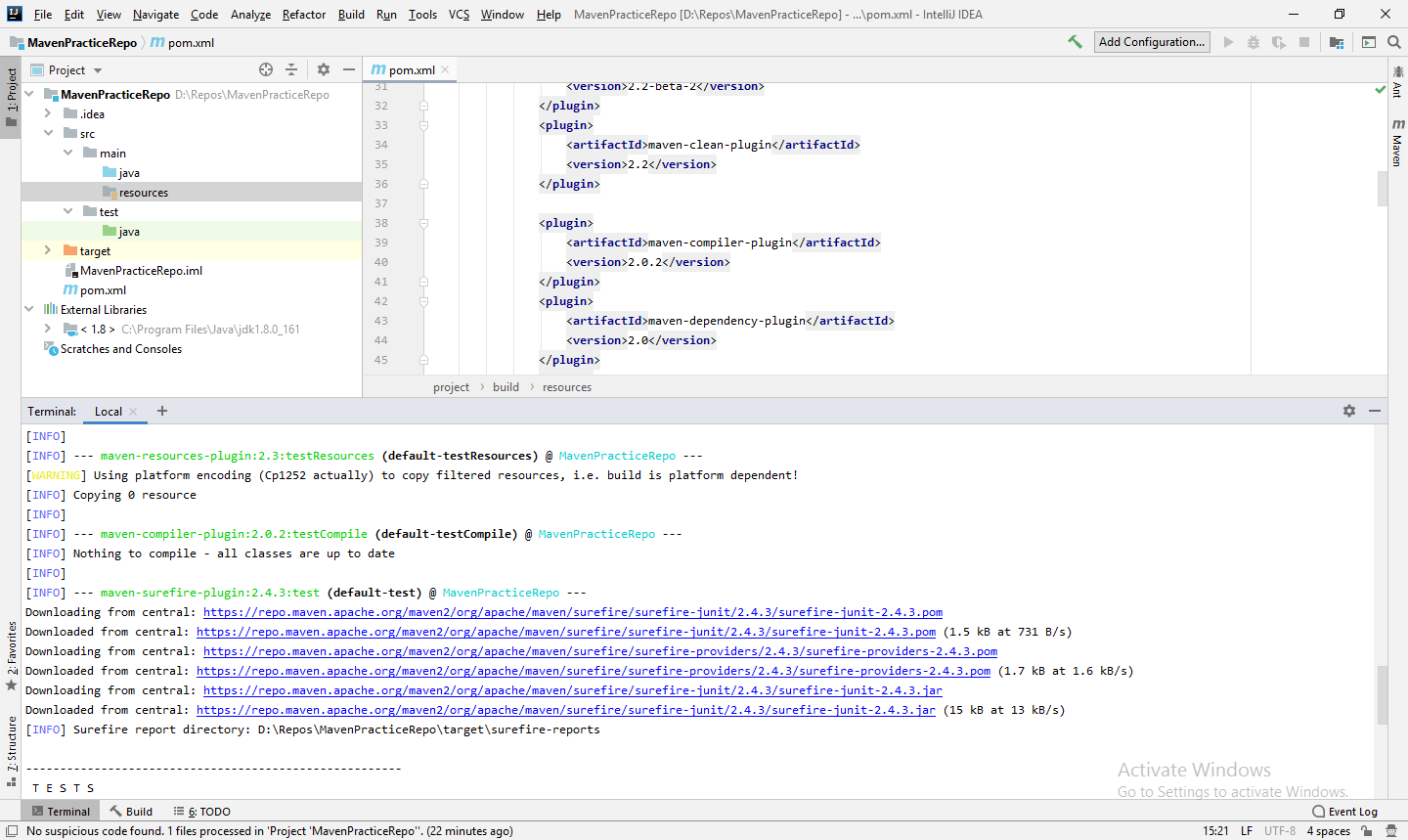
****

****

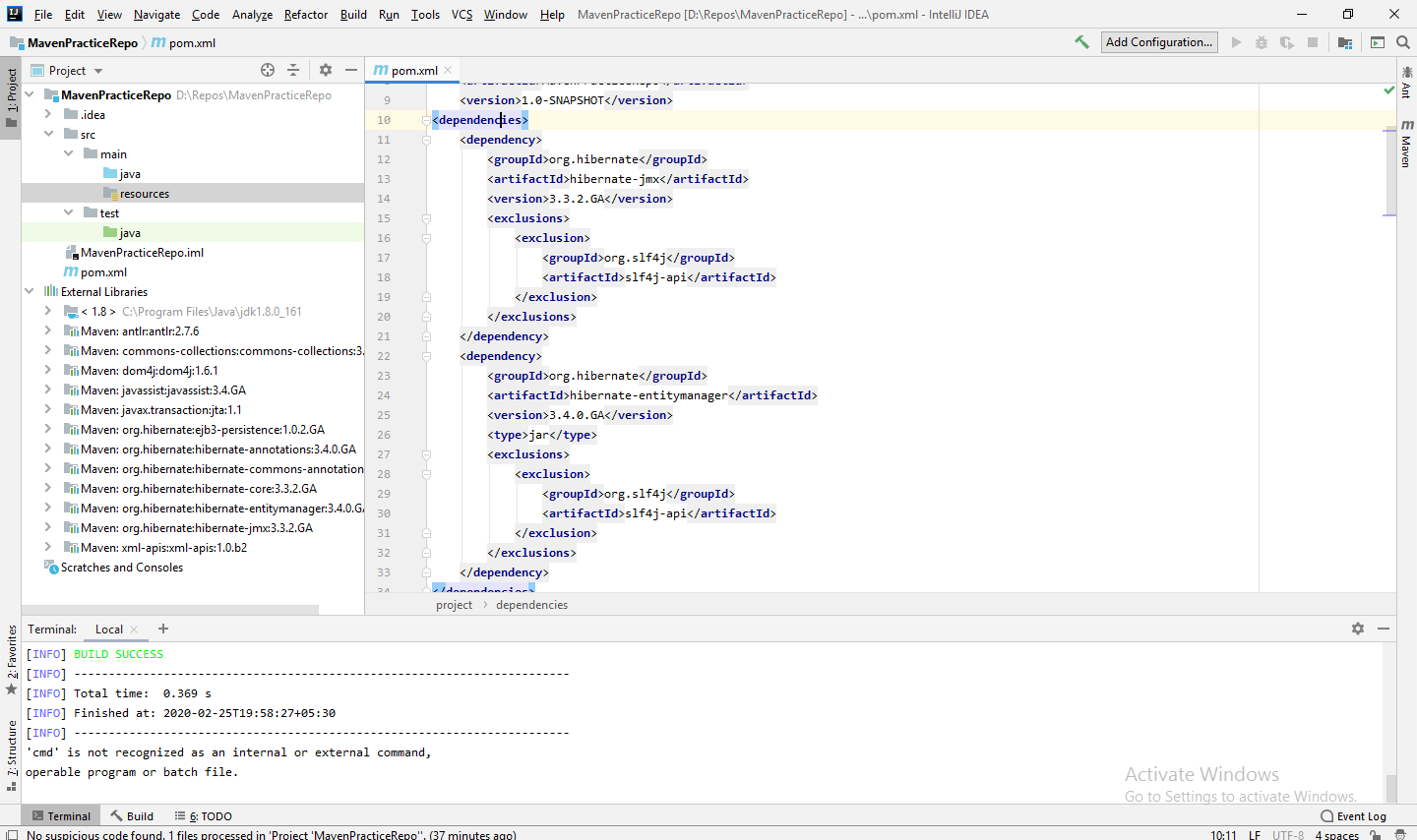
****

****

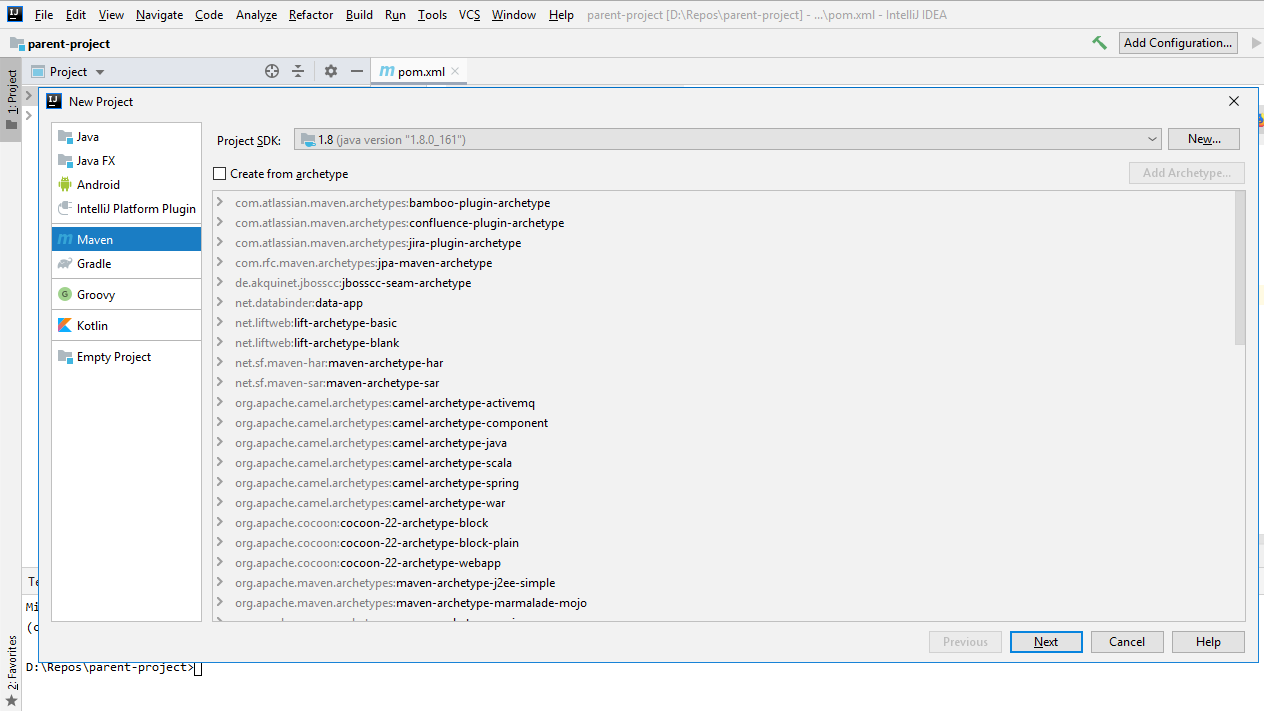
****

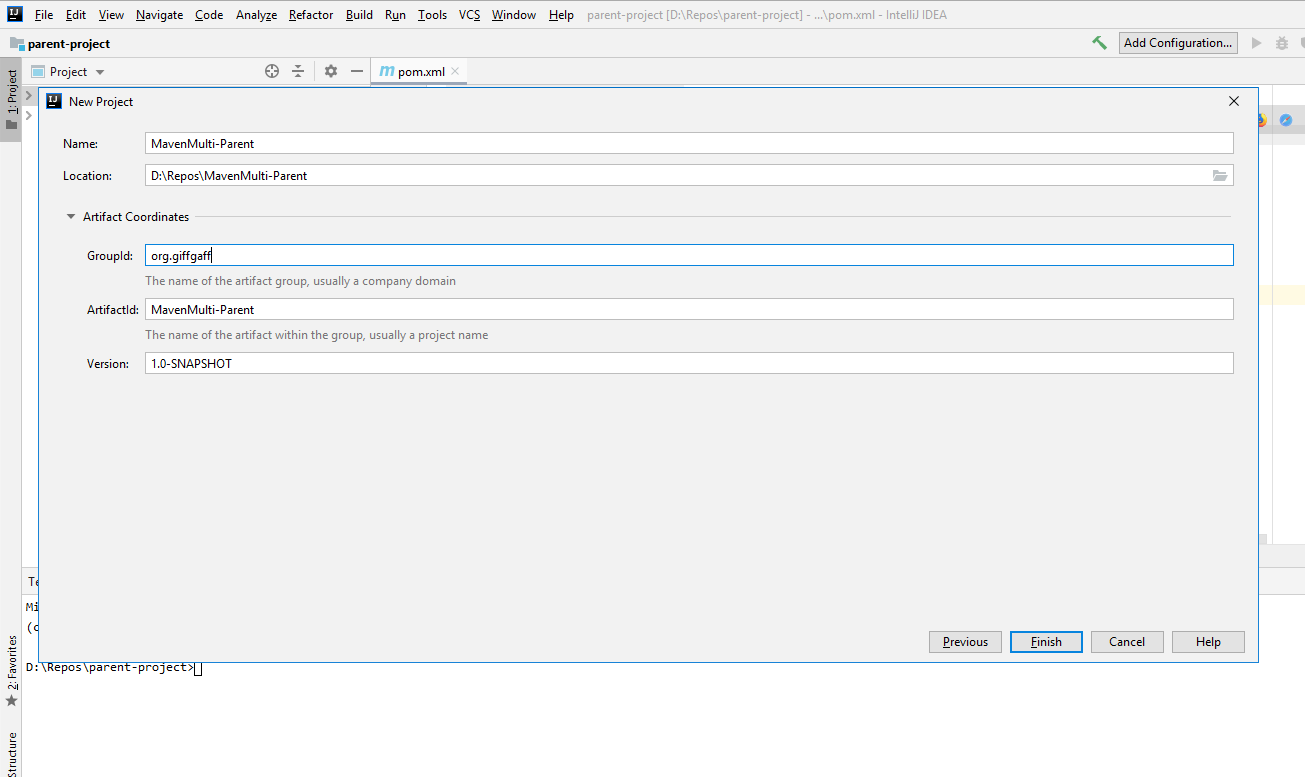
****

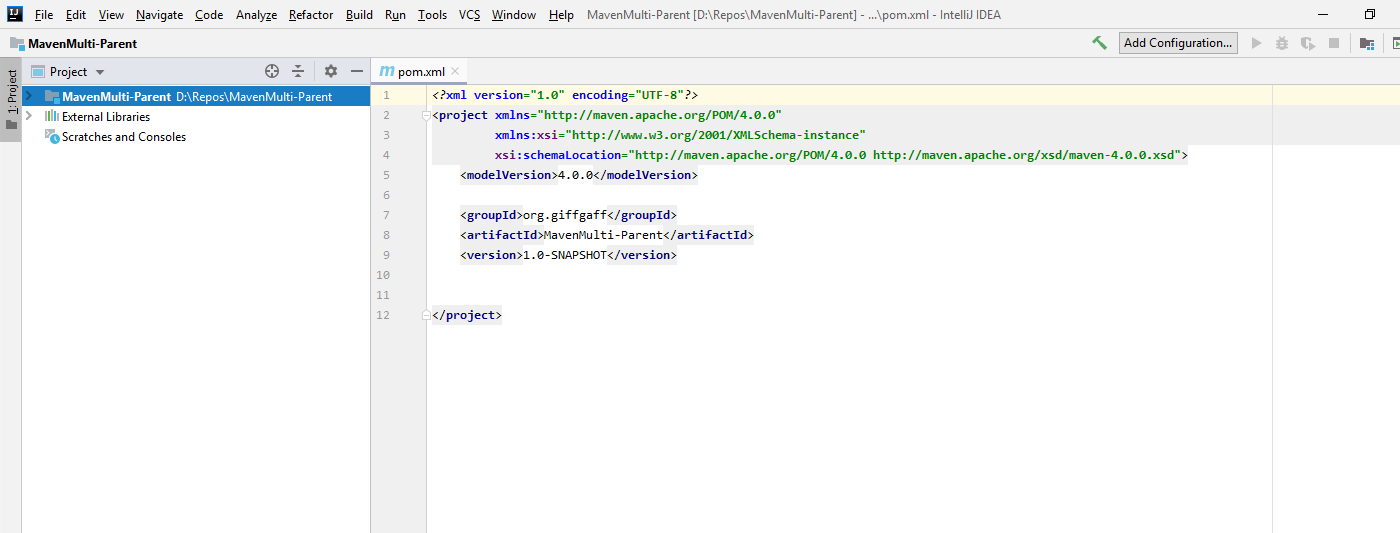
1. Edit the POM file include the hibernate to perform transitive dependencies & then exclude that dependency.

****

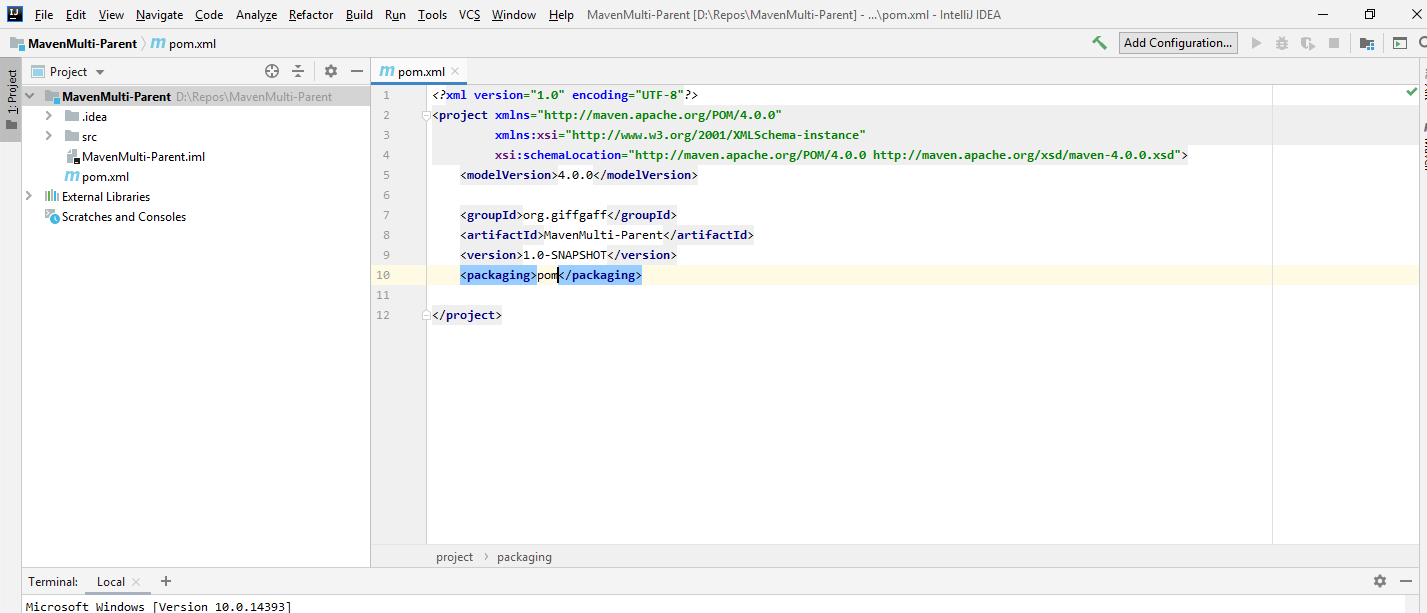
1. Create a multi-layer project with maven & specify the dependency in that & Show the best practices to maintain the multi-module maven project. Run some important commands useful while debugging the project & perform maven archetype plug-in to generate sample projects.
2. Creating Maven Project

****

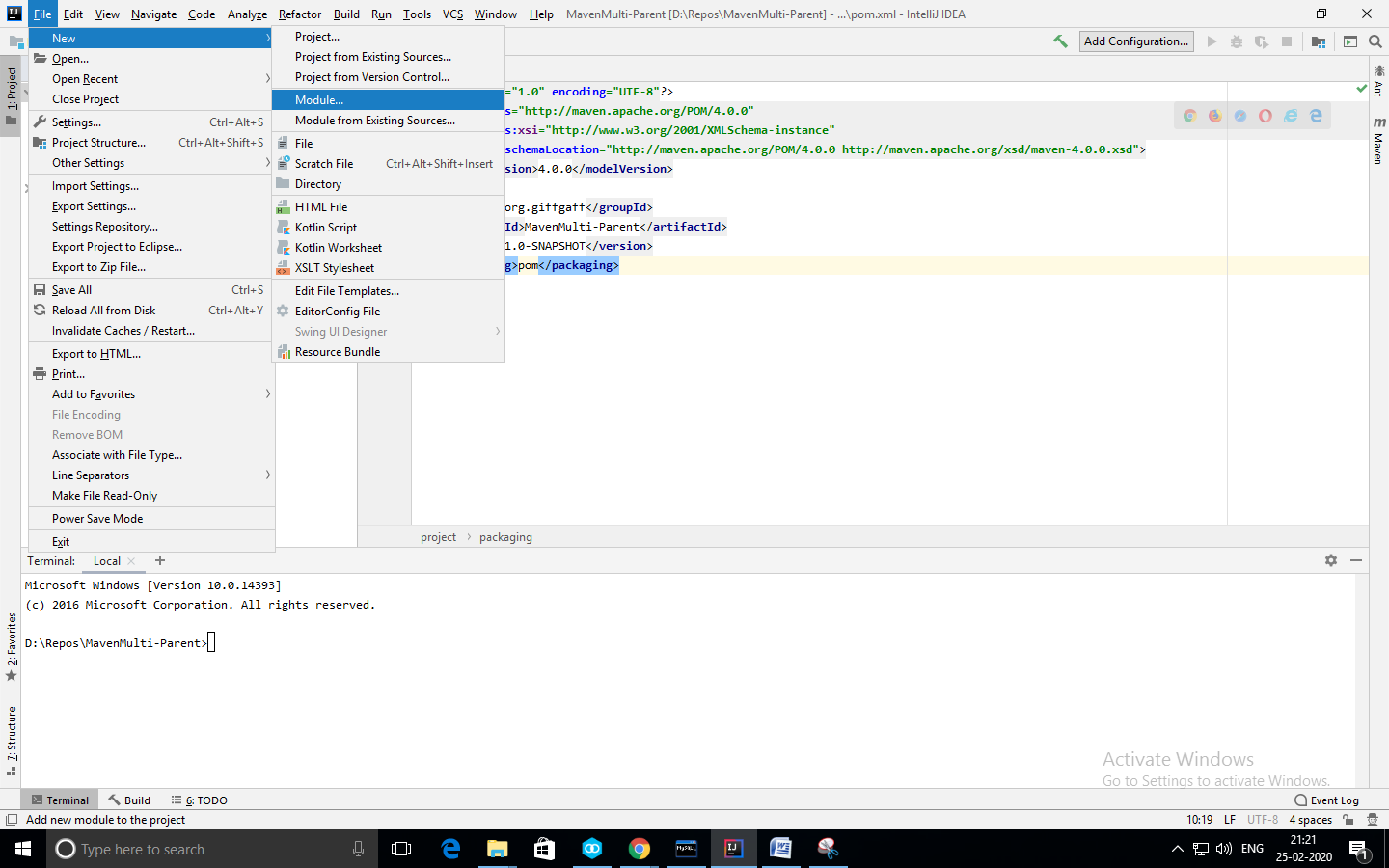
****

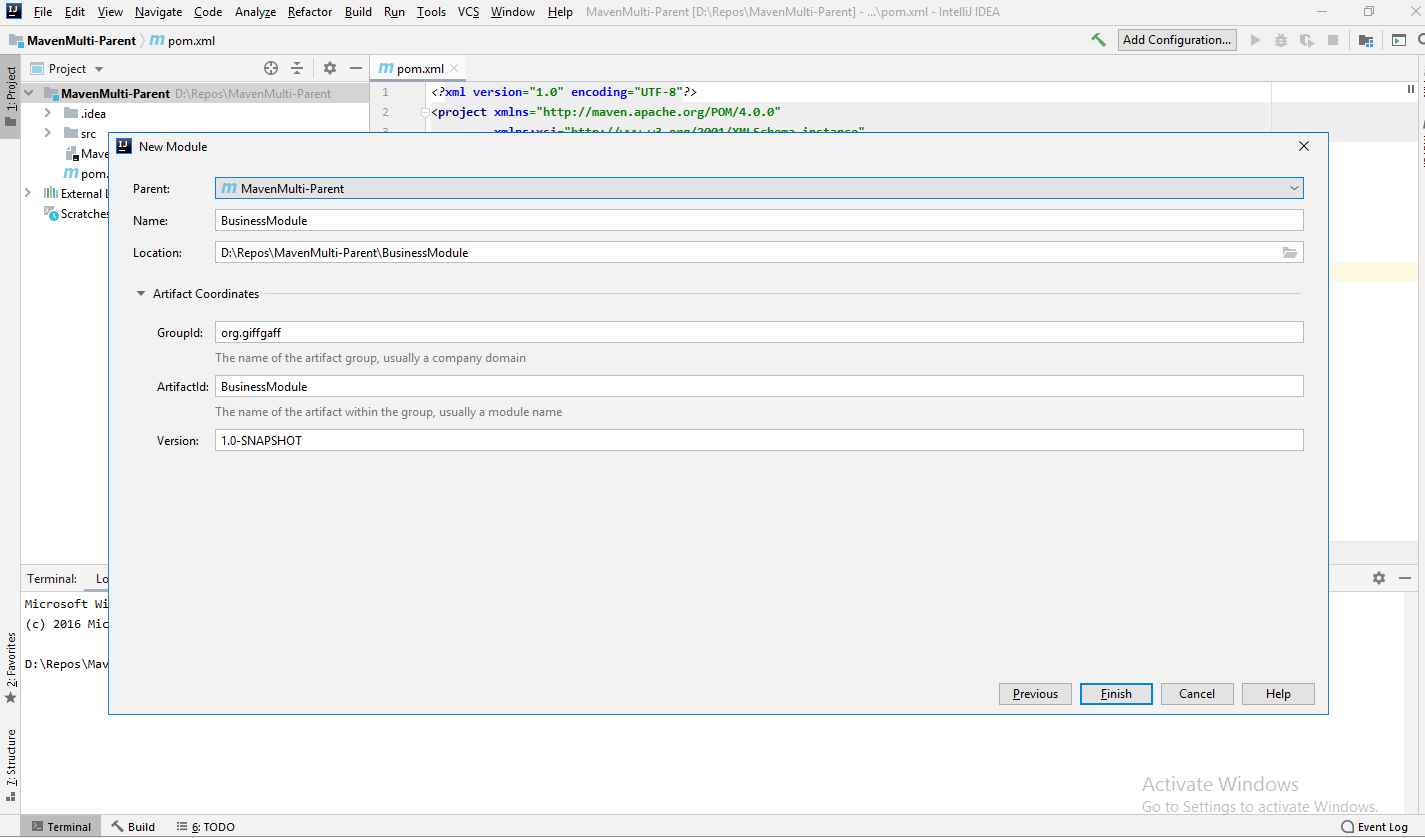
****

1. **Add packaging tag in the parent pom xml.**

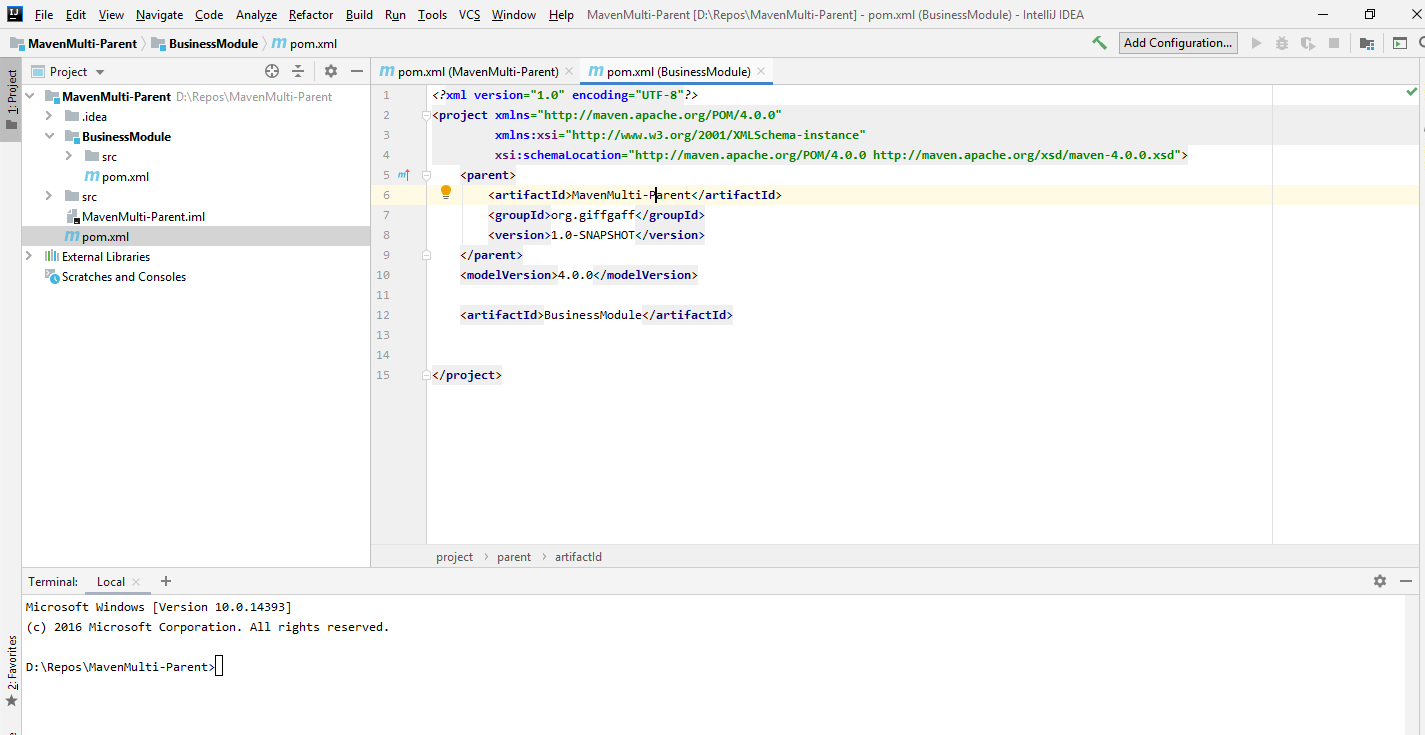
****

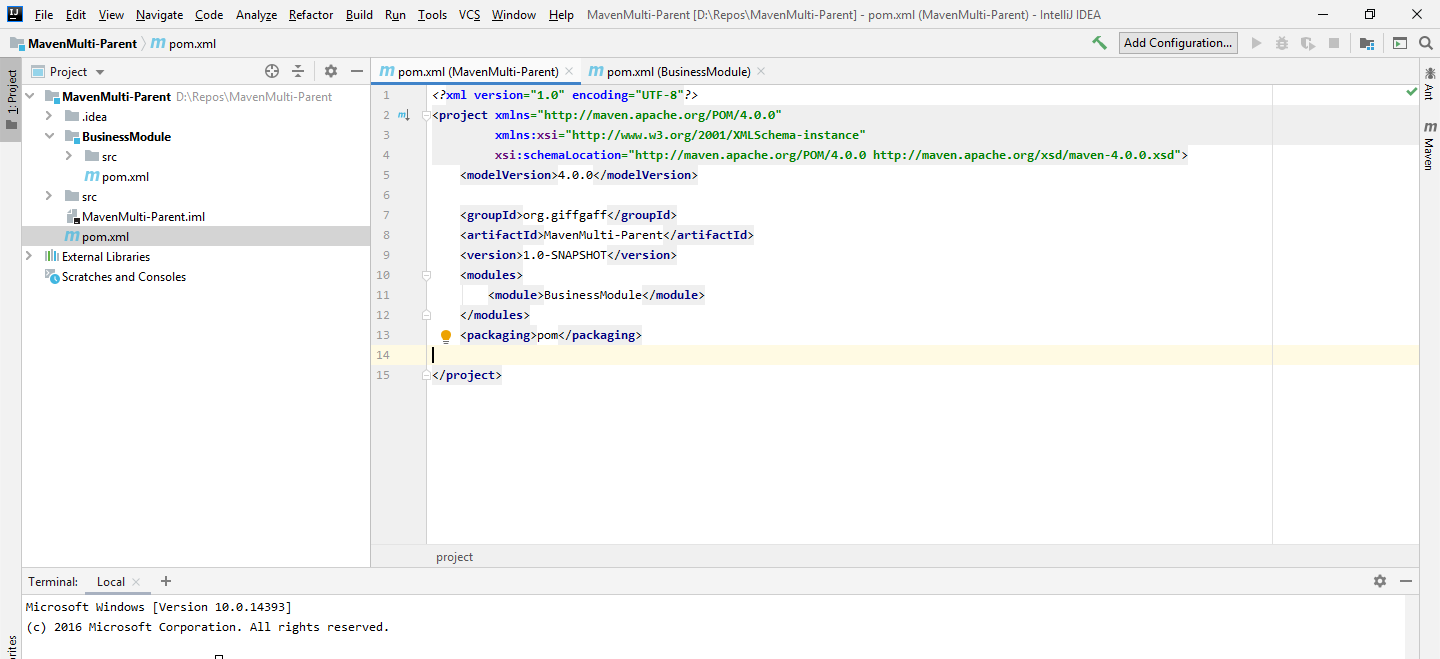
1. **Create a module from the parent maven project.**

****

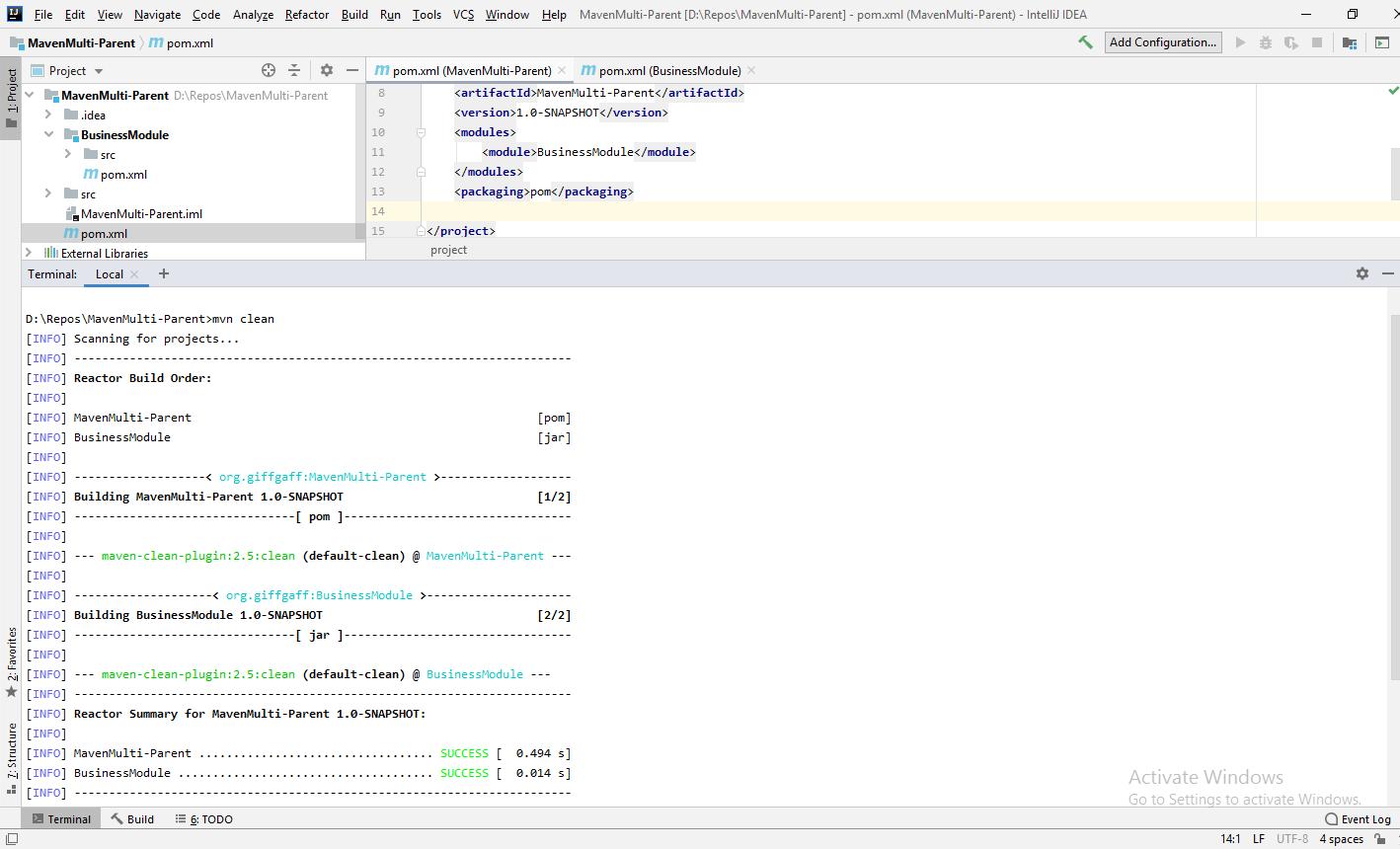
****

1. **We can see the both parent and child pom xml below**

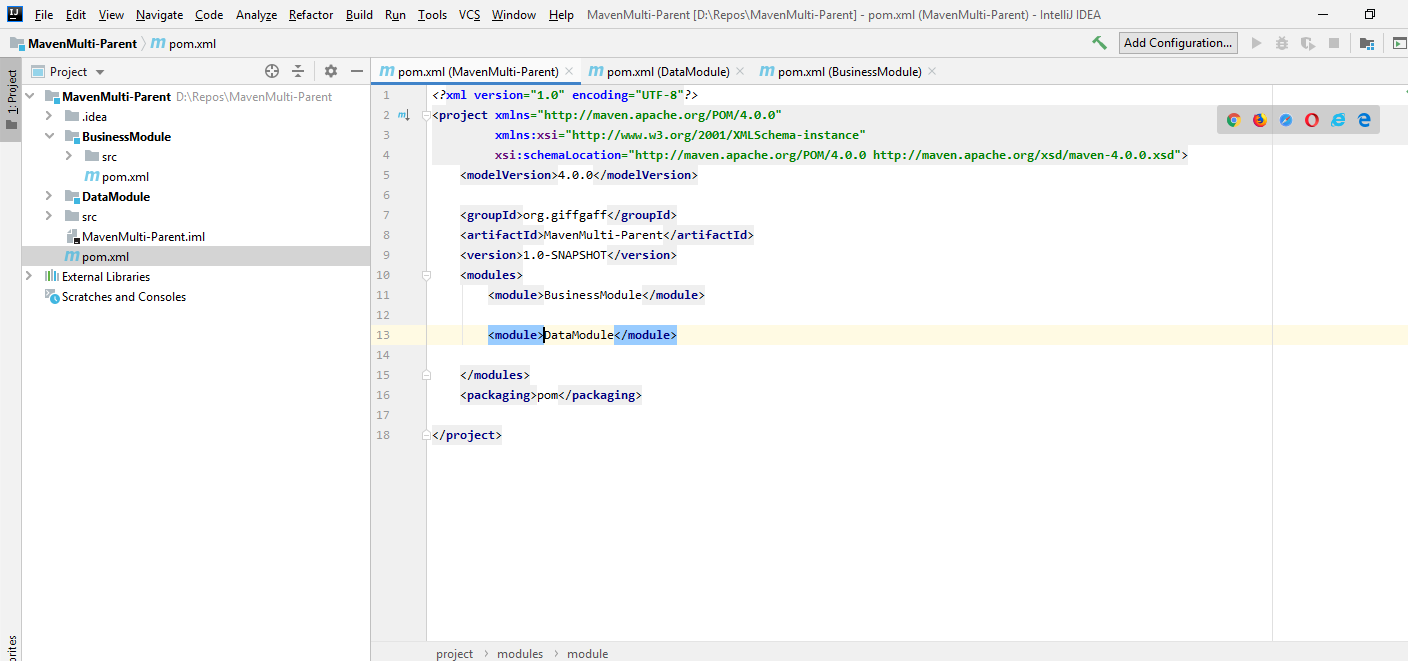
****

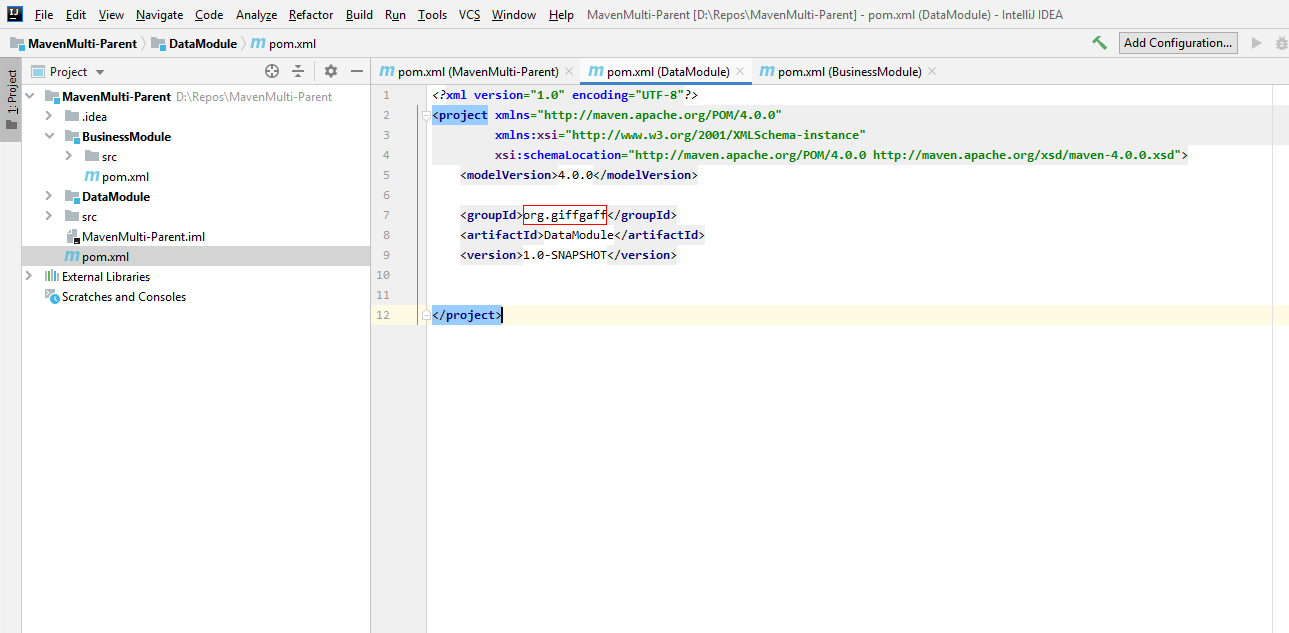
****

1. **Run the command “mvn clean” and now both parent and child module jars created.**

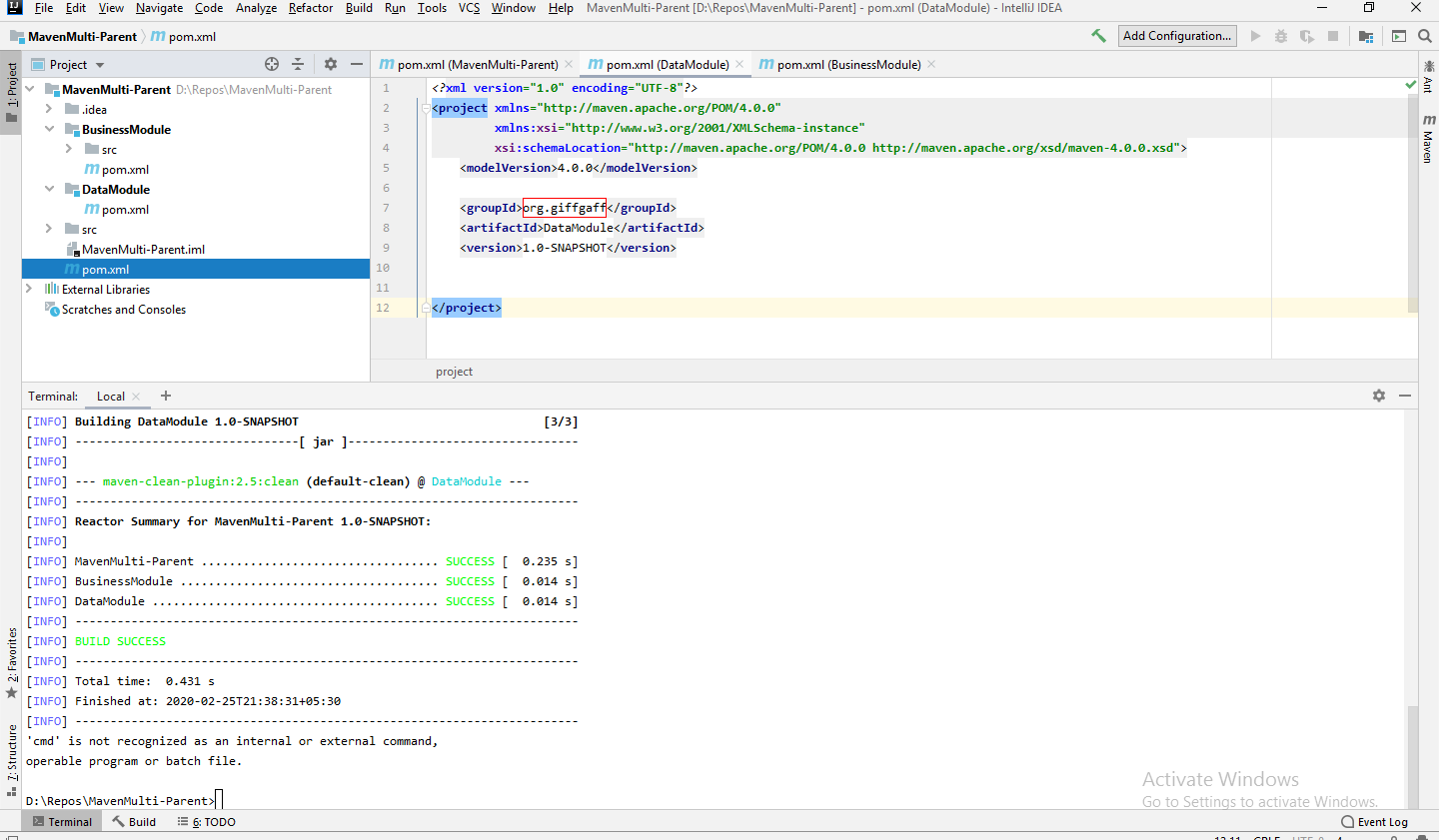
****

1. **Create another module called “DataModule”. Update the parent pom with one new module tag and update the references.**

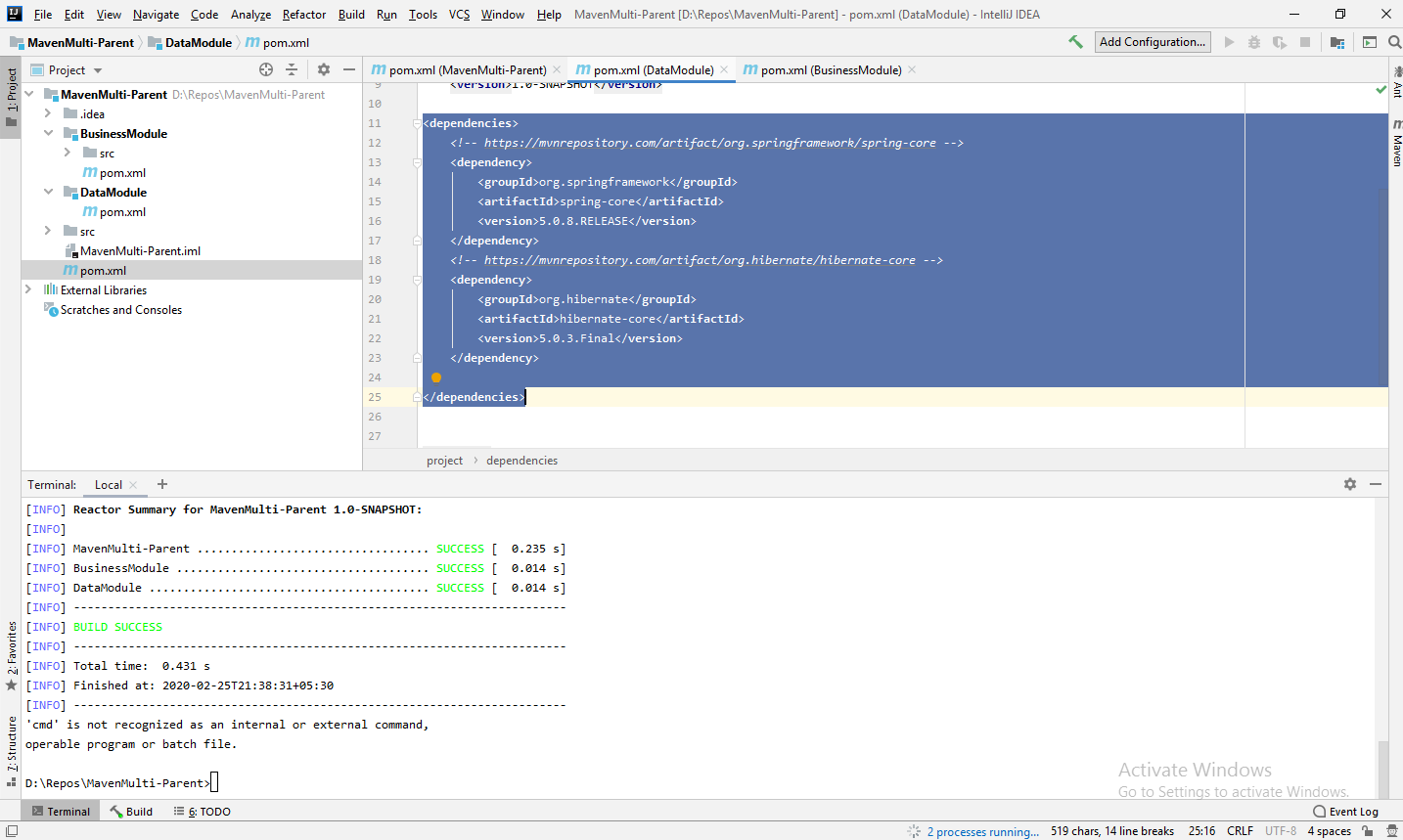
****

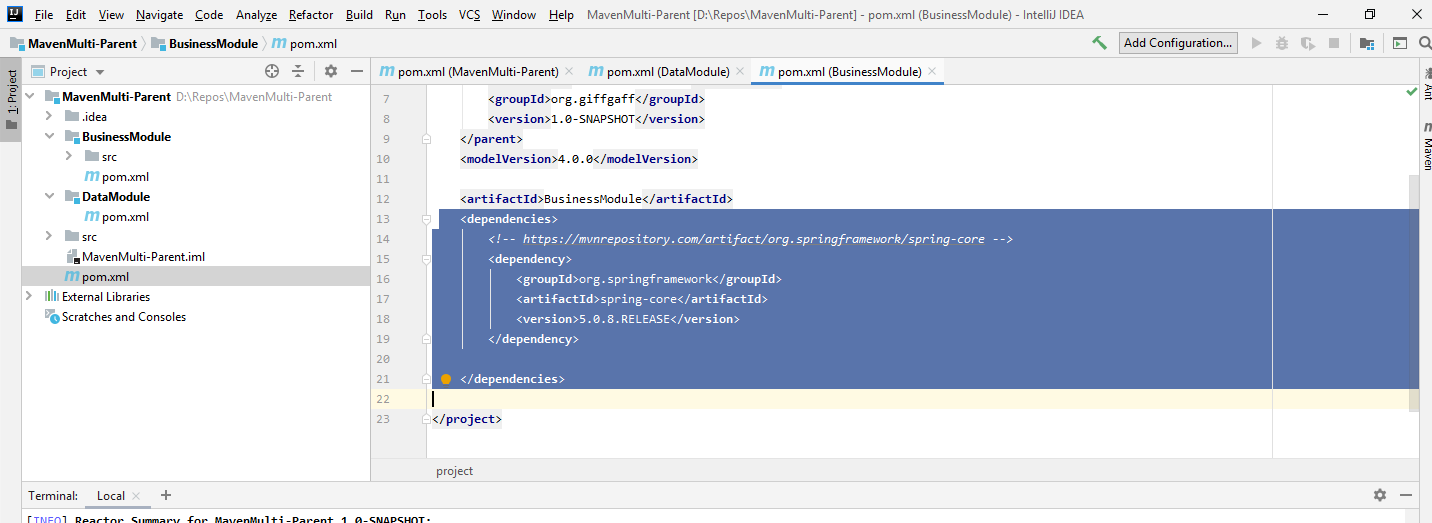
****

1. **Run the “mvn clean” / “mvn clean install” again to build the jars. Now 3 jars created.**

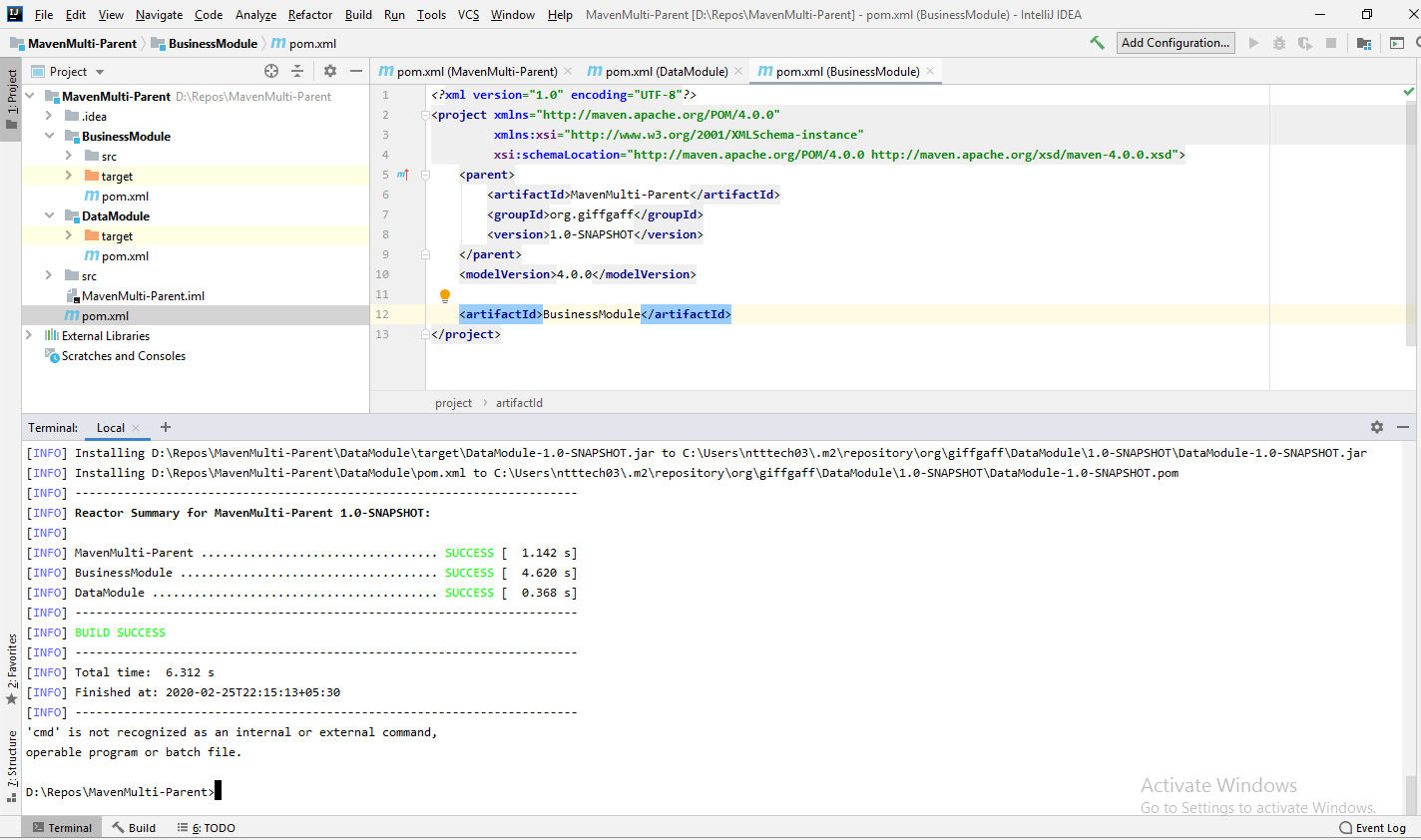
****

1. **Adding individual dependencies in the sub modules.**

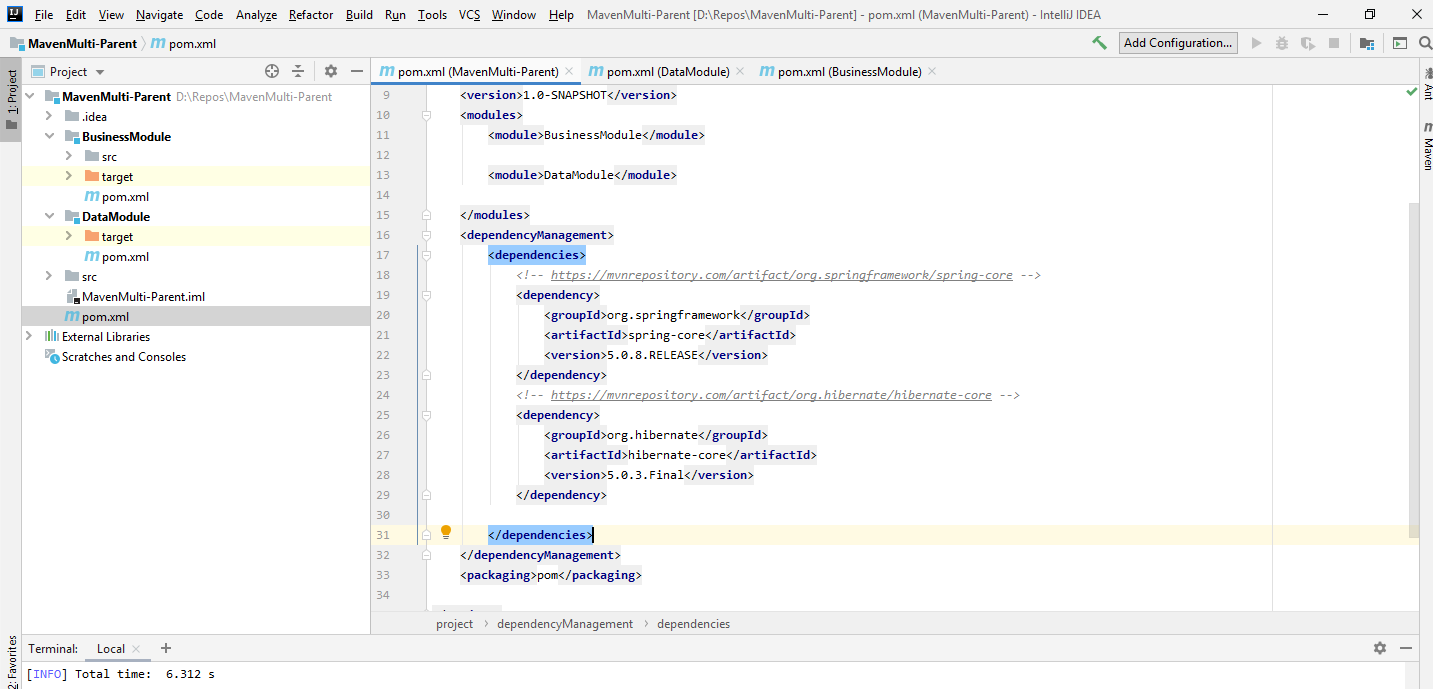
****

****

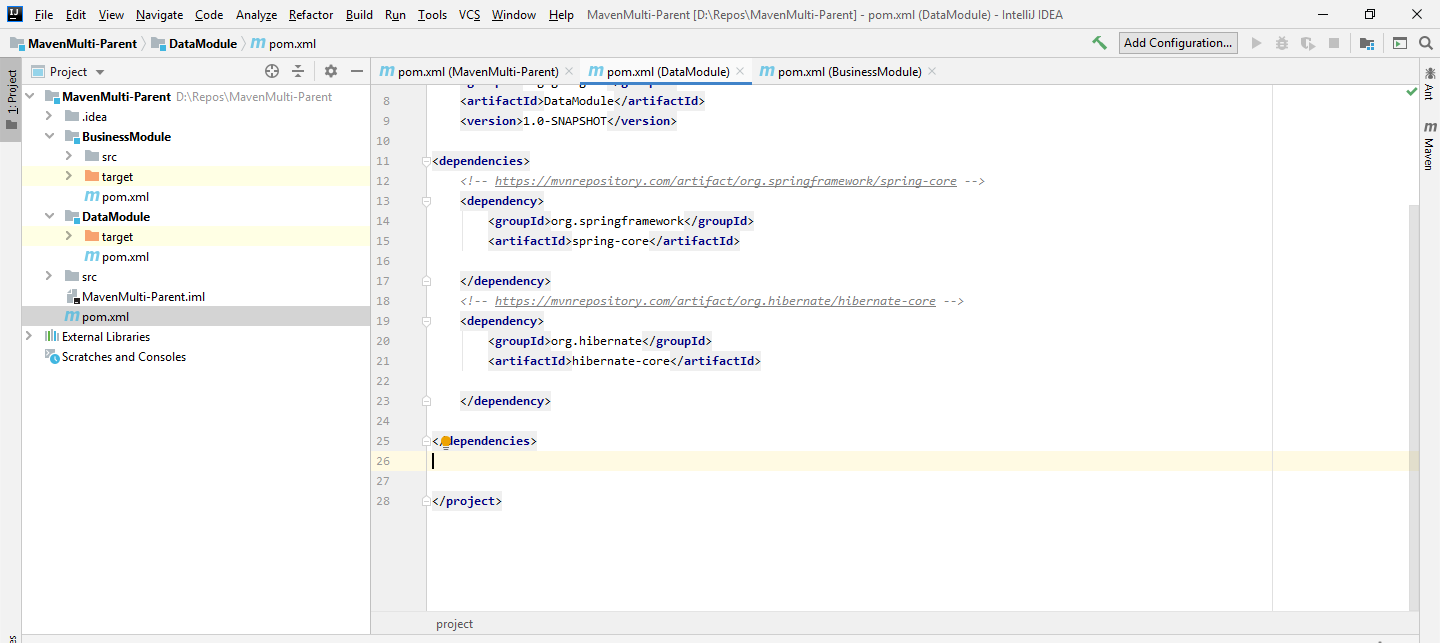
1. **Build the project from terminal “ mvn clean install”.**

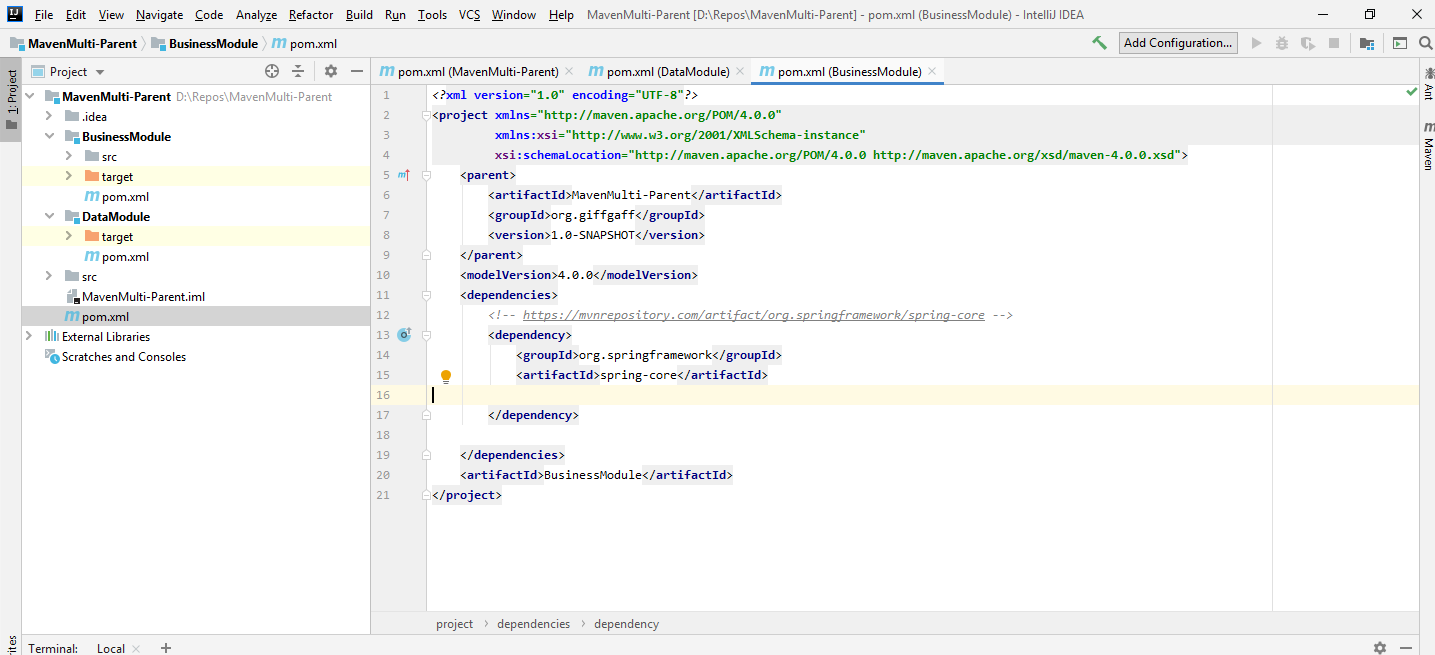
****

1. **Add Dependency management in parent xml.**

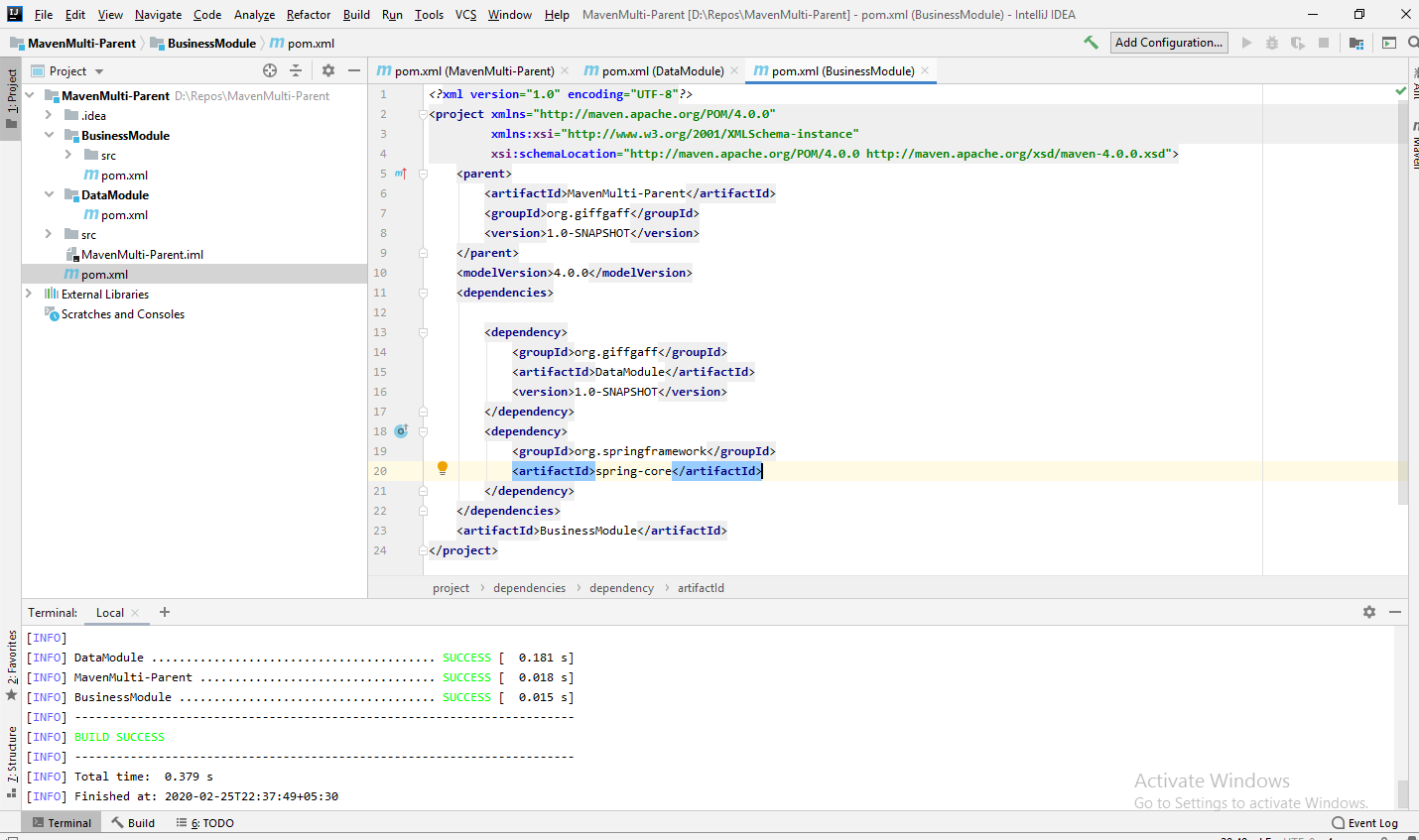
****

1. **Now remove the versions from the child module pom xml’s (maven best practices).**

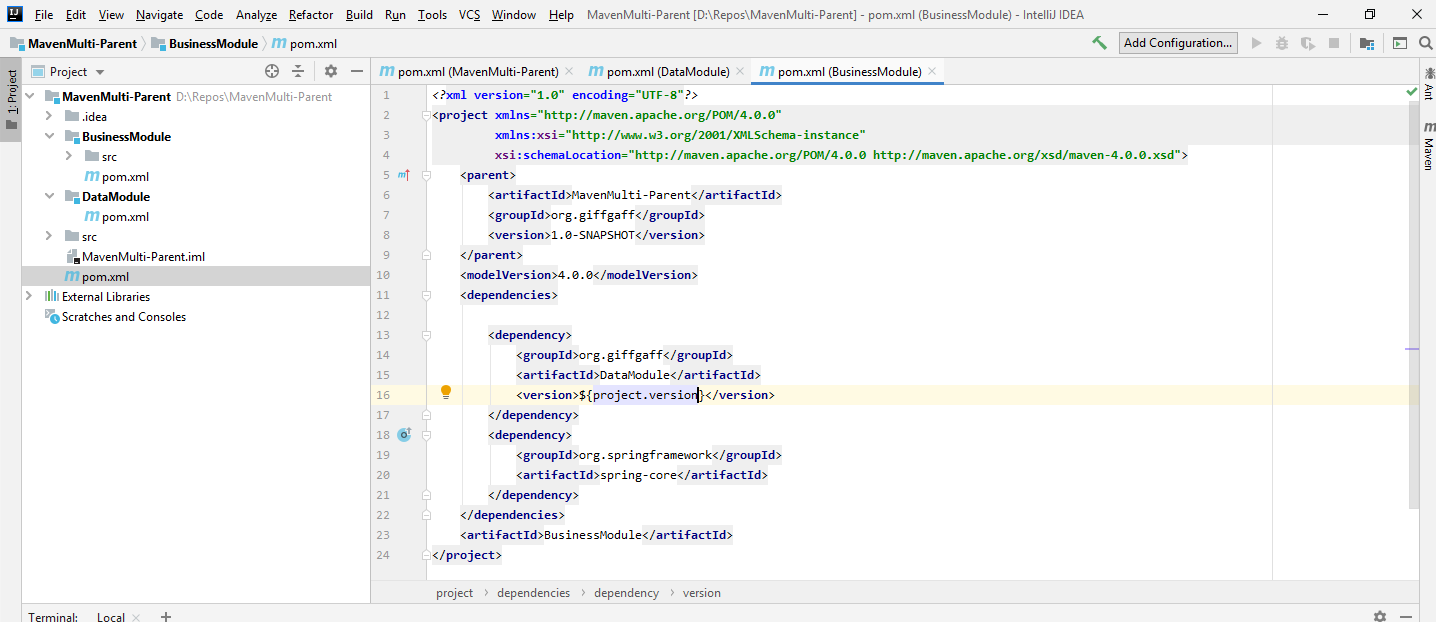
****

****

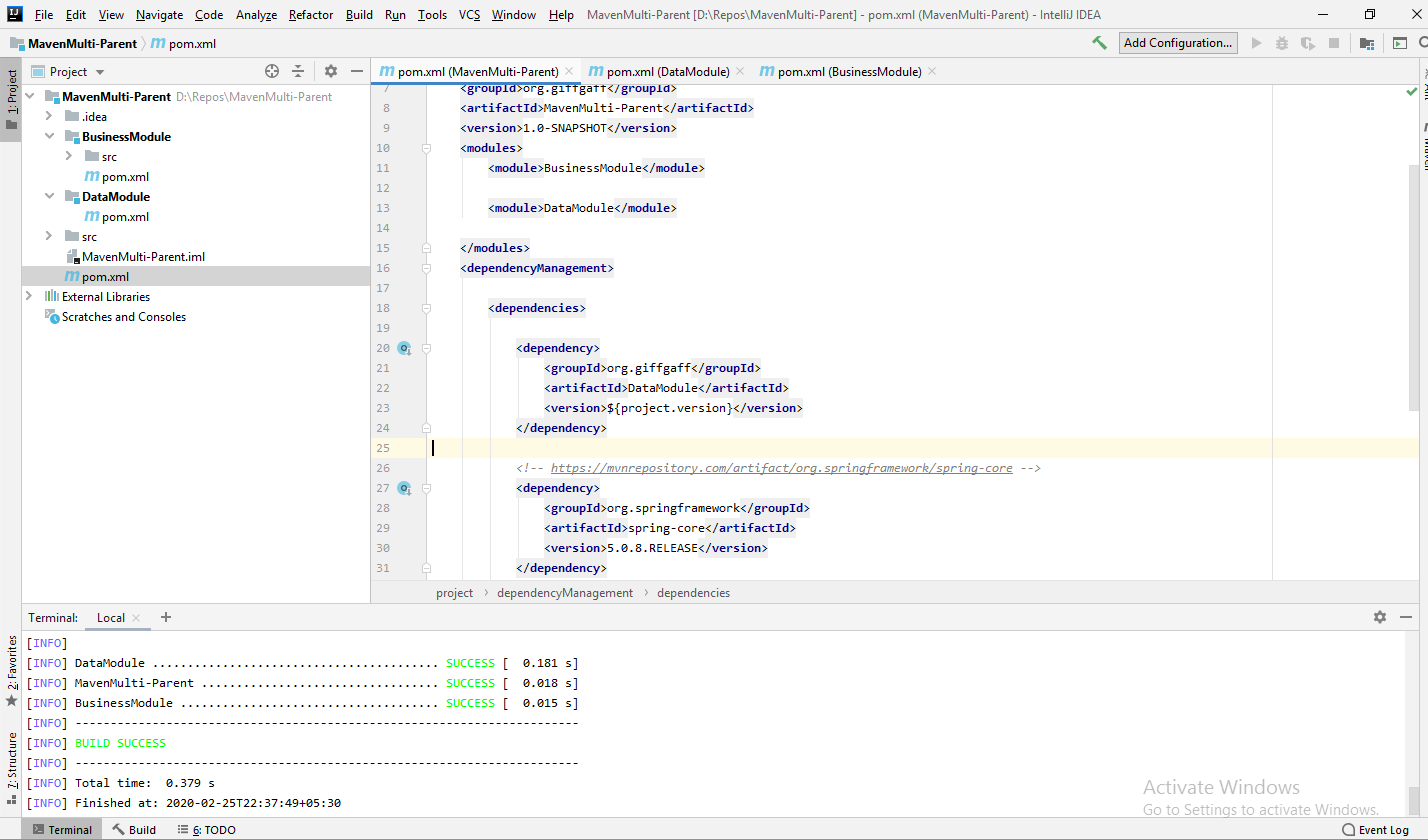
1. **Adding module dependency with artefact-id. Added data module dependency in business module pom.**

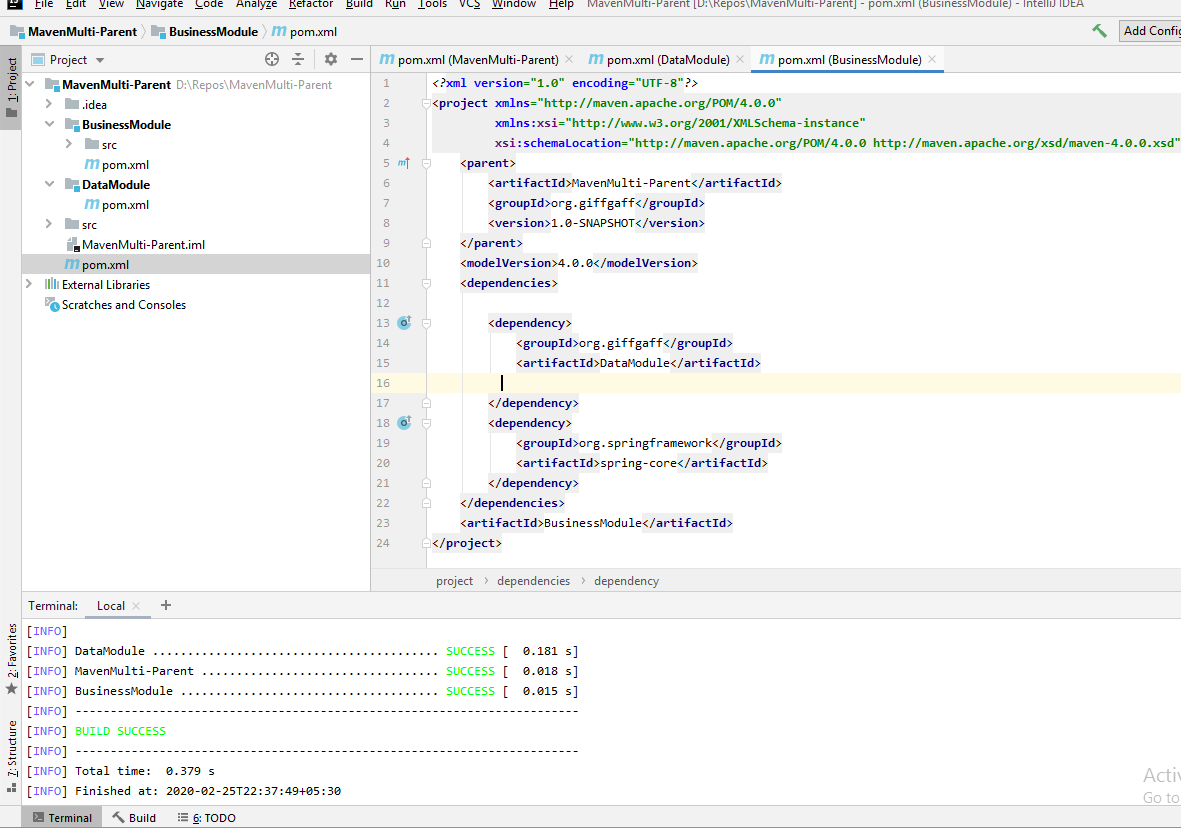
****

**Defining sub module version in pom:**

****

**Sub module dependency Adding to Parent pom and remove version from the child pom:**

****

****