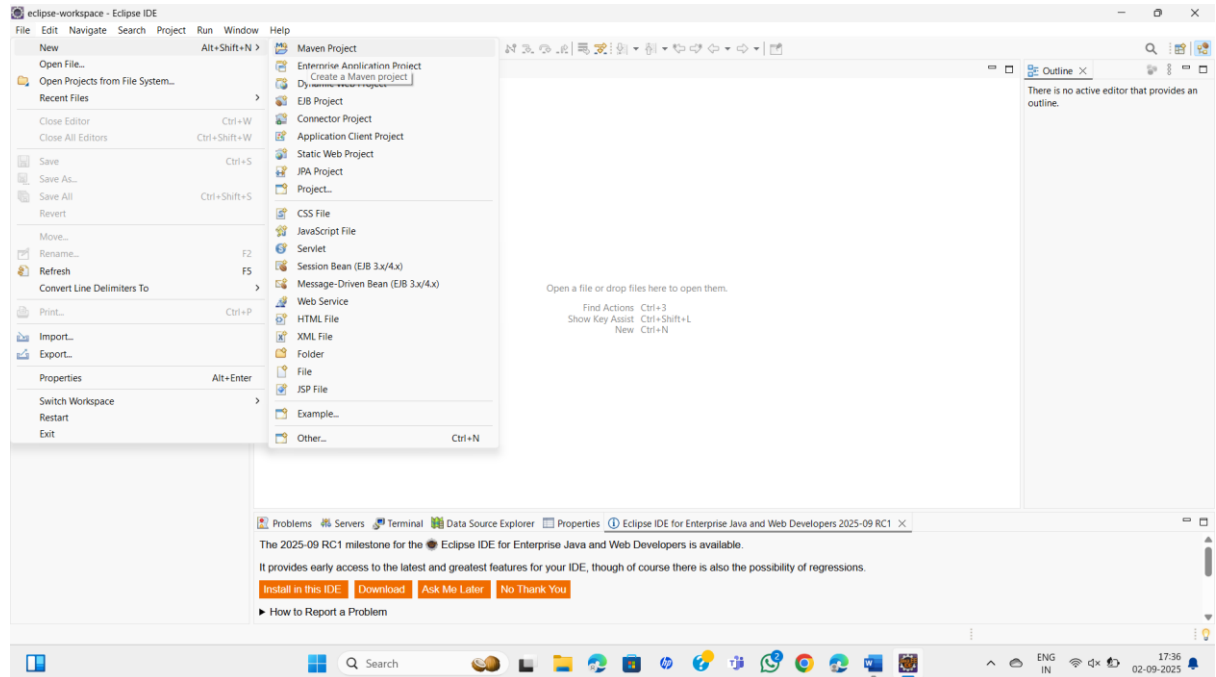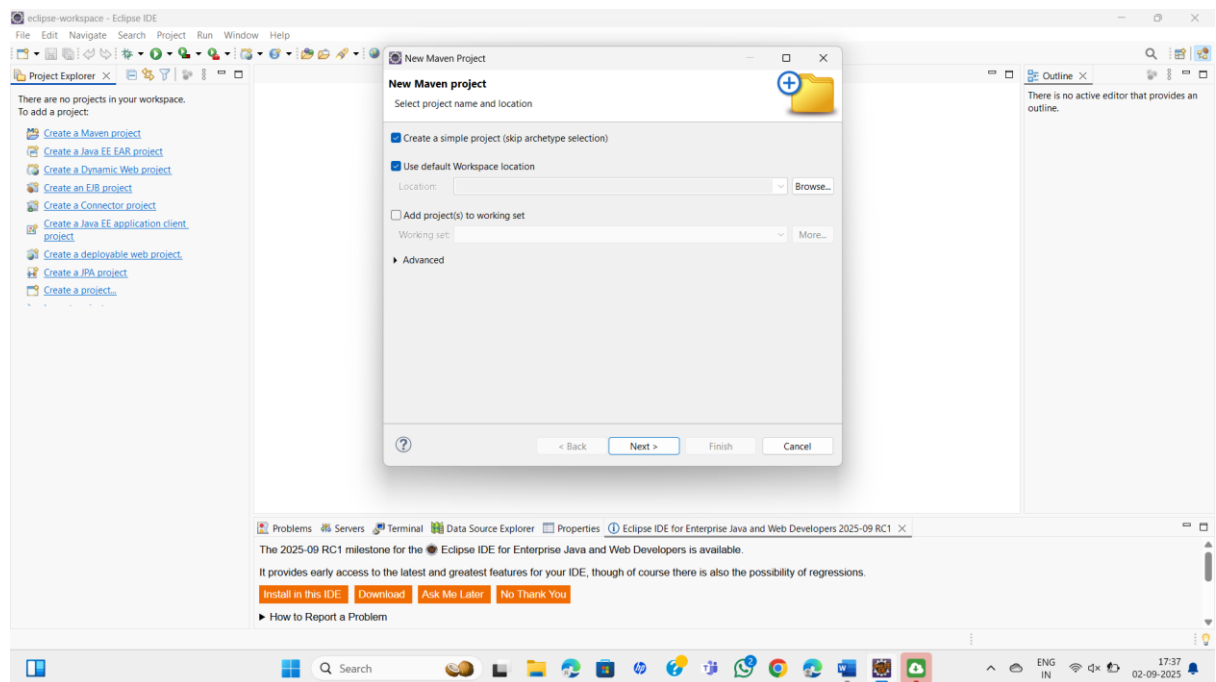# Creating a Multi-Module Maven Project:
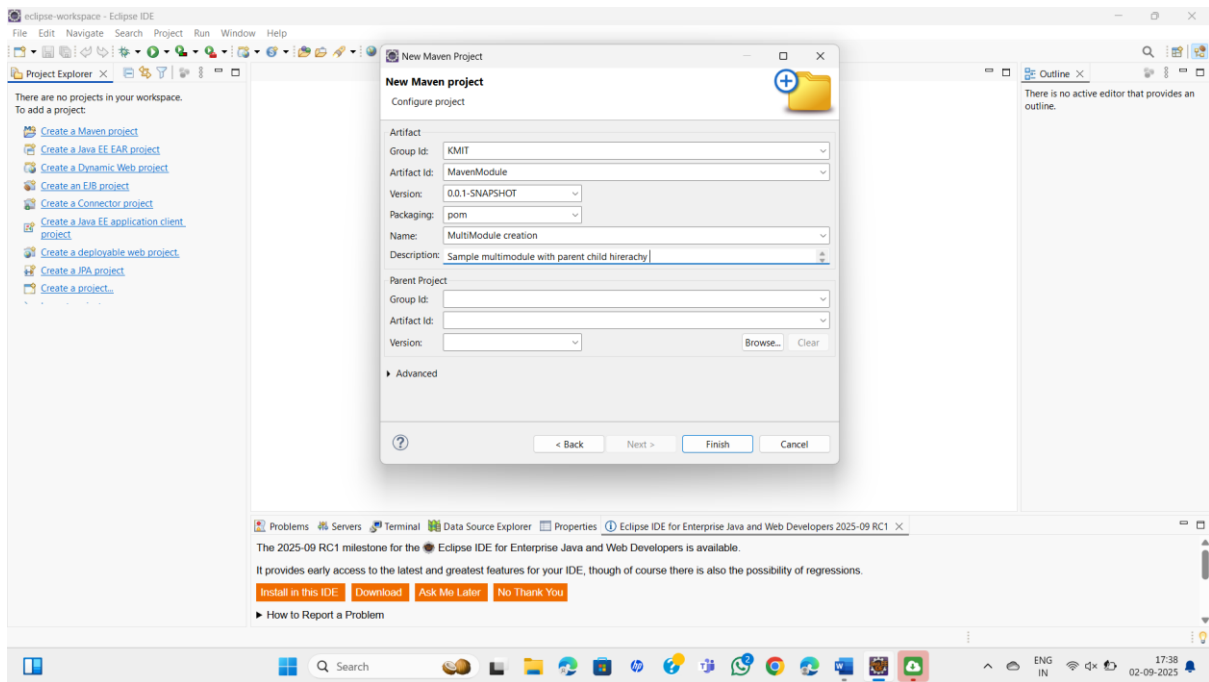
1. **Open eclipse-> file-> new -> other -> Maven -> MavenProject ->click on next.**
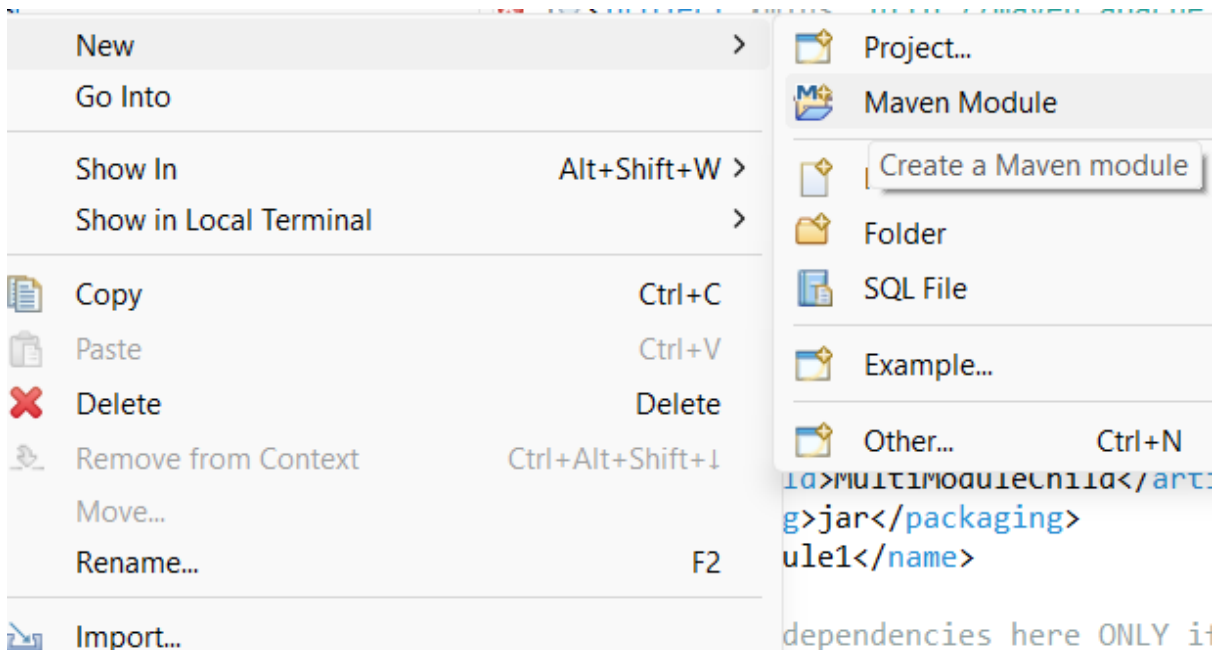
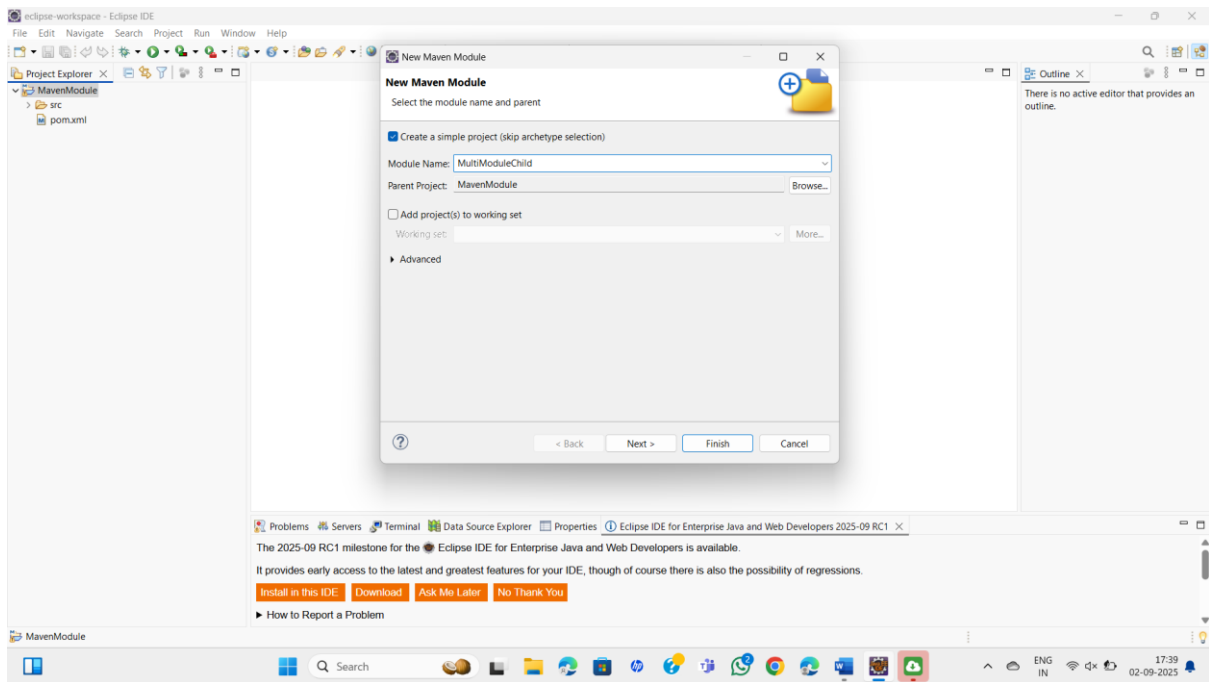**2.Check the first option: Create a Simple project(skip archetype selection) and click on next.**

 3.Give groupID: KMIT, artifact ID: MultiModule, in the packaging tab select the drop down and opt for pom.

4.Give Name: Multimodule creation and Description: Sample multimodule with parent child hierarchy and click on next.


5.Now the Multimodule folder is created and displayed in the project explorer on the left. Right click on the folder and opt new -> mavenModule
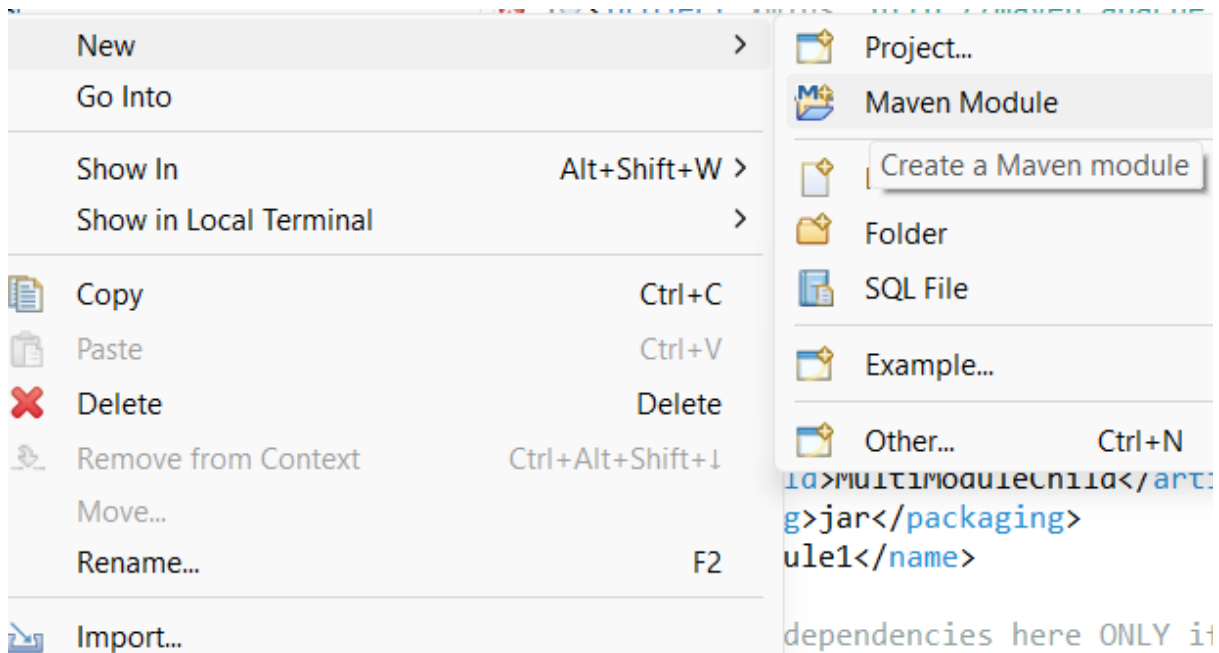
6.Check the option Create a Simple project(skip archetype selection, give the artifactID: MultiModuleChild1 and click on next and finish
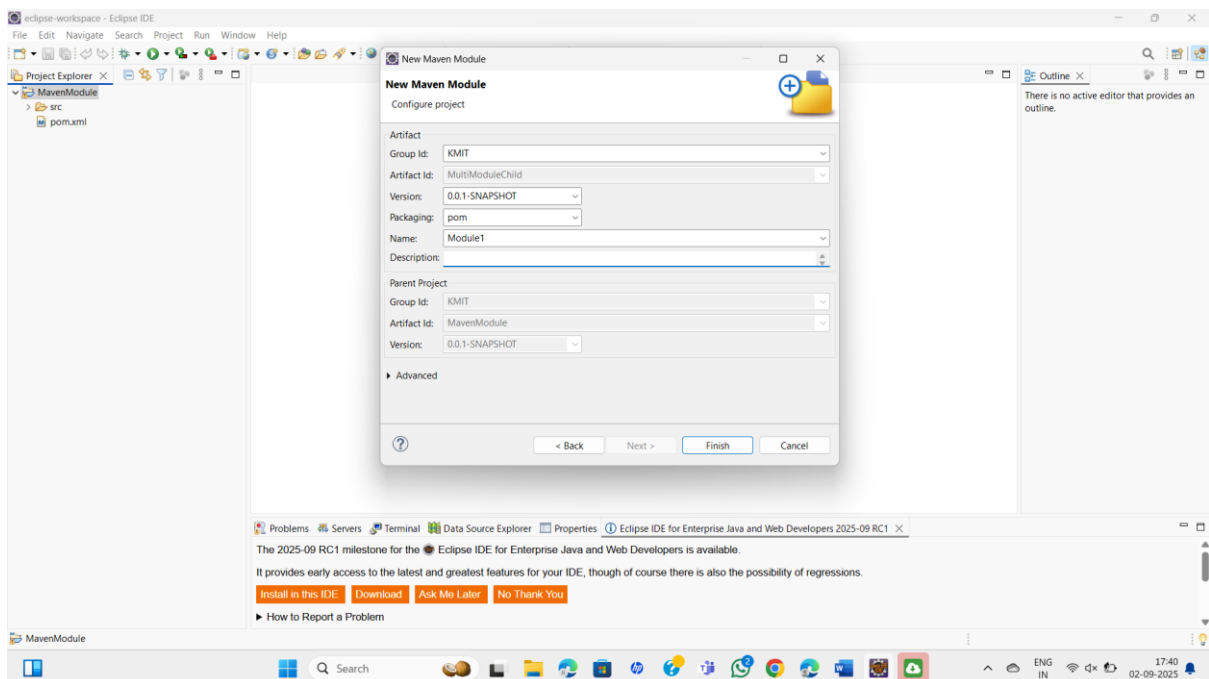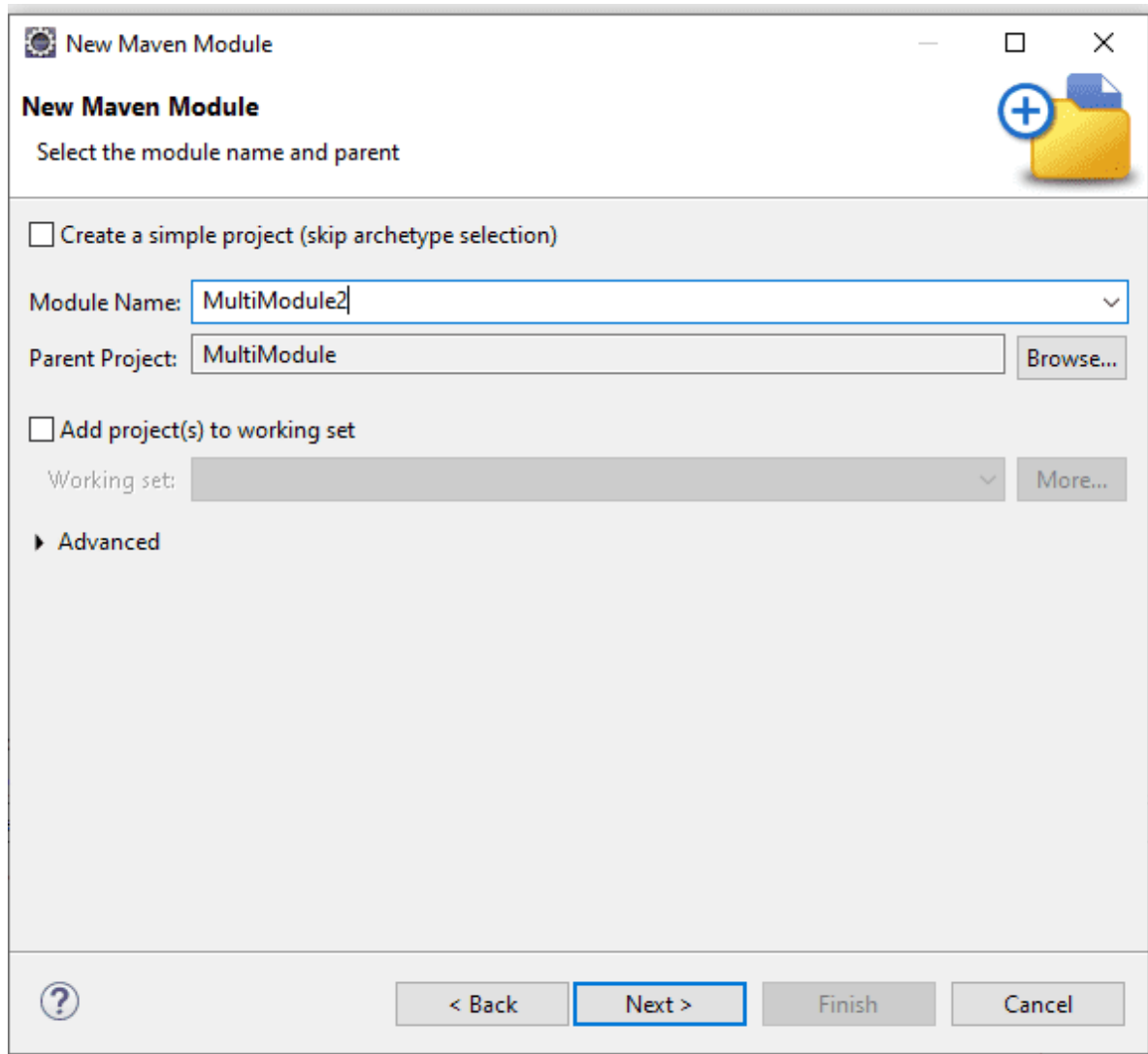

7.Now you can see, the module1 we created is displayed in the project explorer with a separate pom.xml file.
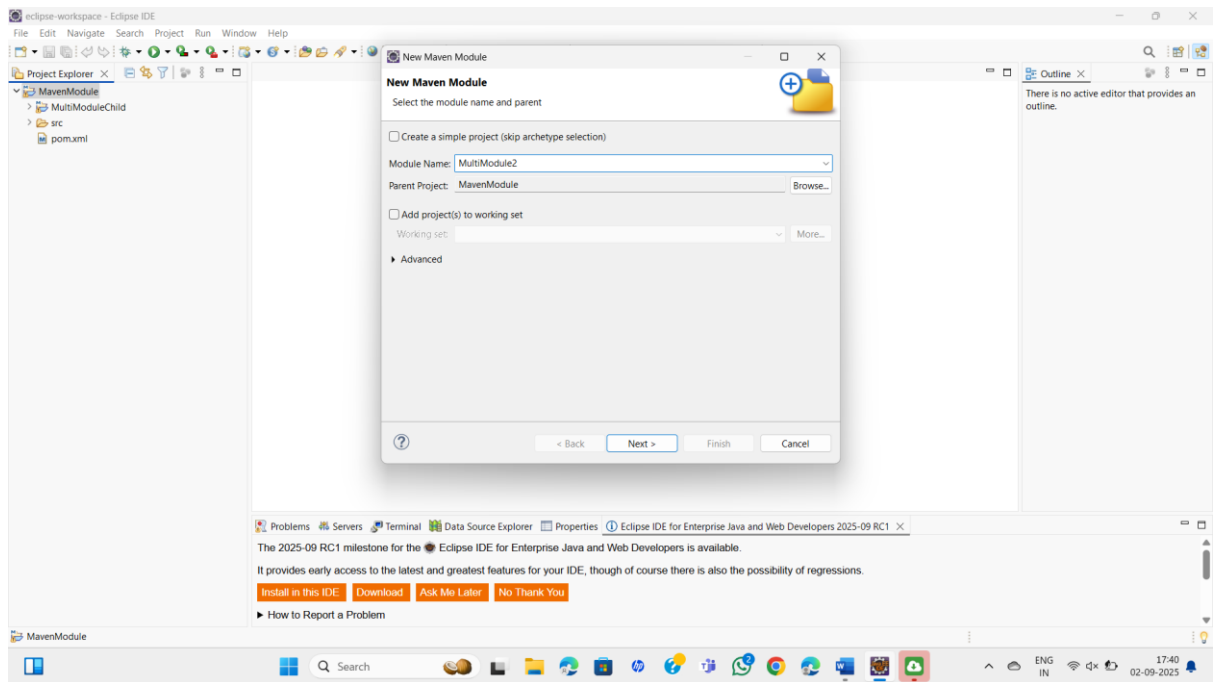
8. Right click on the MultiModule folder in the project explorer and opt new -> mavenModule

9.Give the artifactID: MultiModuleChild2 and click on next.

New Maven Module

New Maven Module

Select the module name and parent

☐ Create a simple project (skip archetype selection)

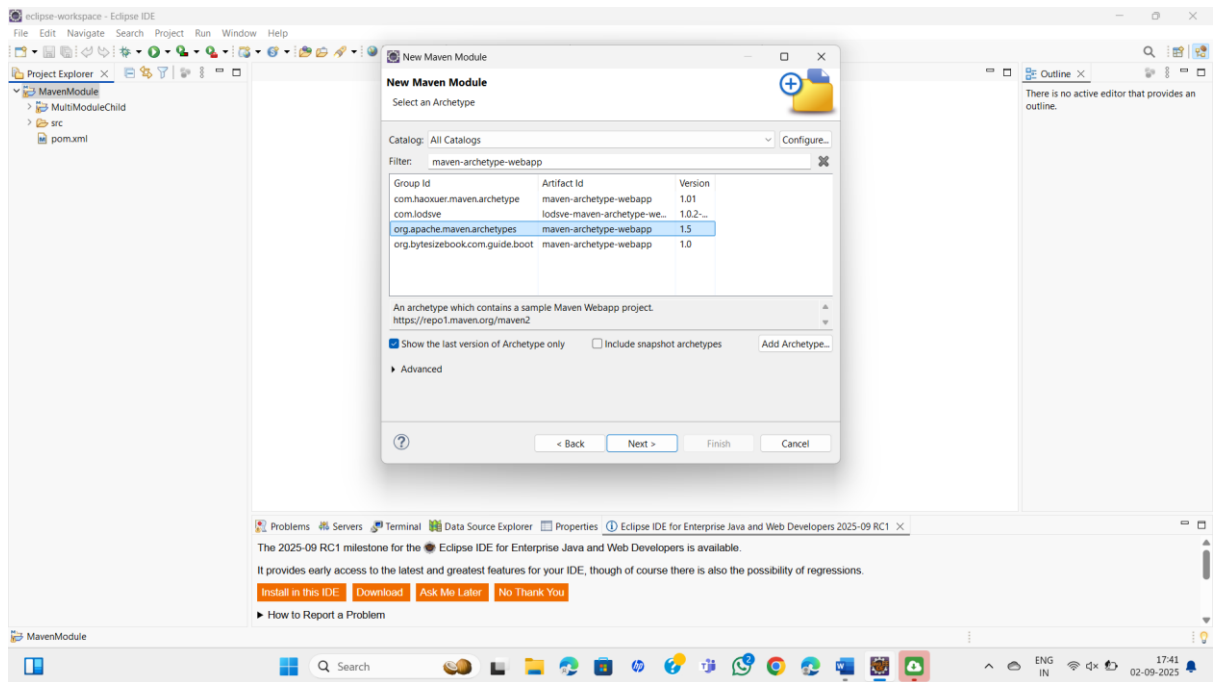Module Name: | MultiModule2

Parent Project: | MultiModule | Browse...
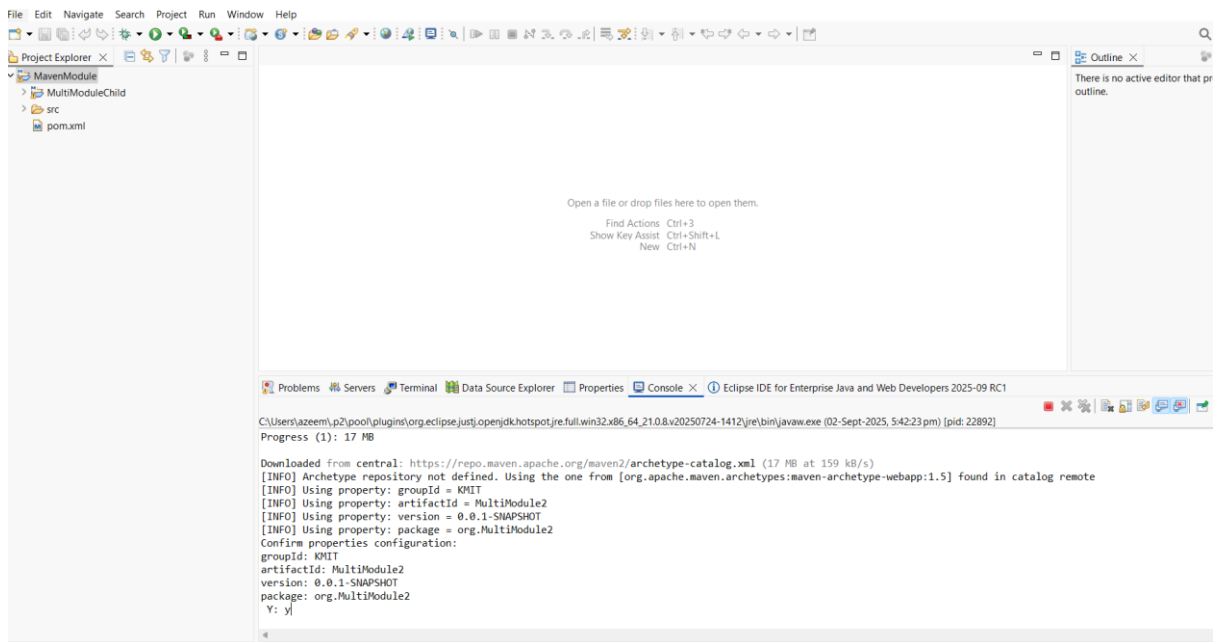
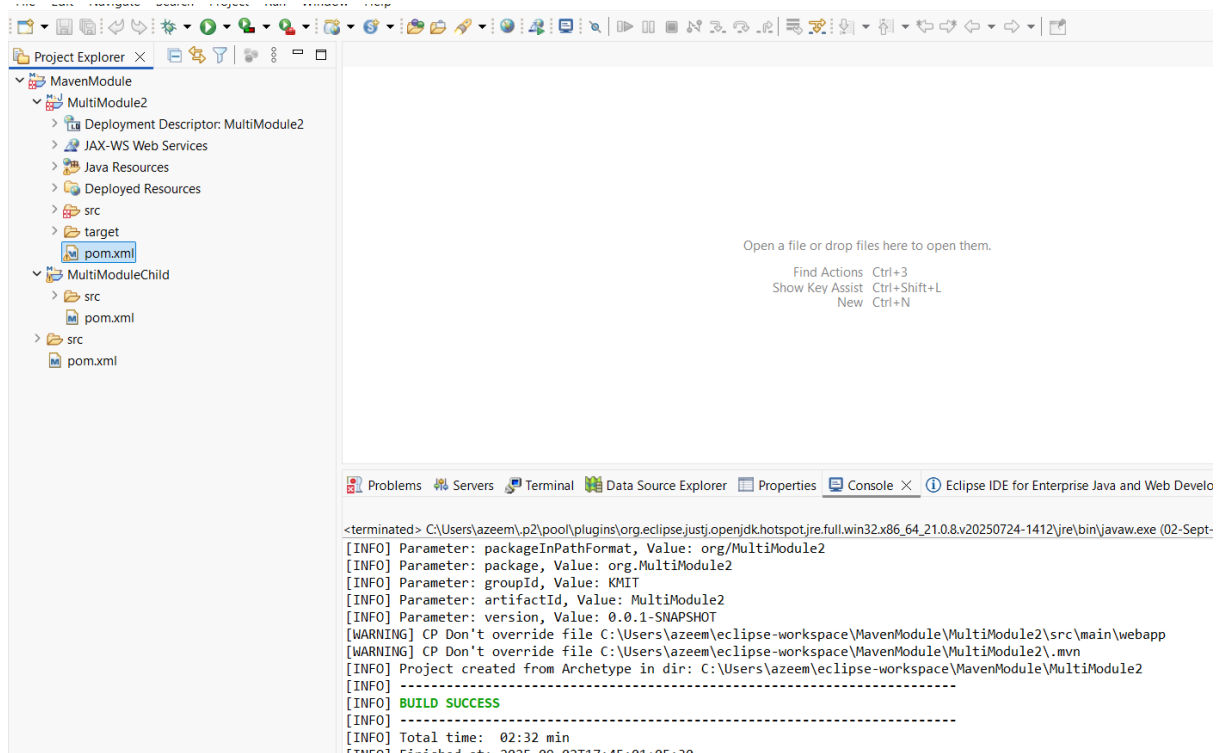☐ Add project(s) to working set

Working set: | | More...

▶ Advanced

< Back | Next > | Finish | Cancel

10.In filters search for maven-archetype-webapp, select the version 1.1/1.5 and click on next.

11.Now click on finish, and confirm with a Y in the console.

12.Now you can watch the new child is been added to the parent project.

Linking two modules in a Parent Project:

1. Goto pom.xml of child2.
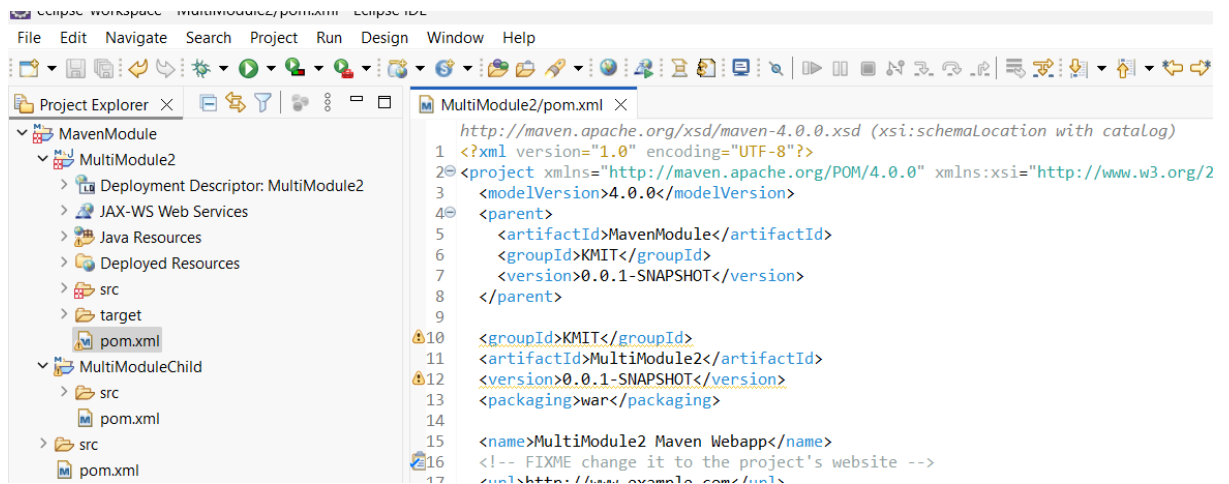
2.Navigate to dependencies tag. Update the dependencies with child1 dependency as given below, and save pom.xml after update.
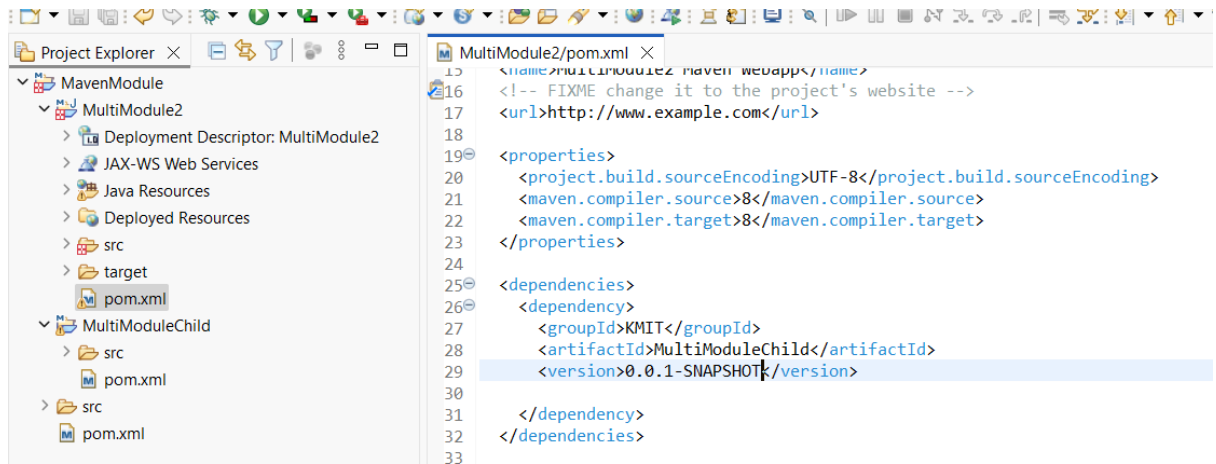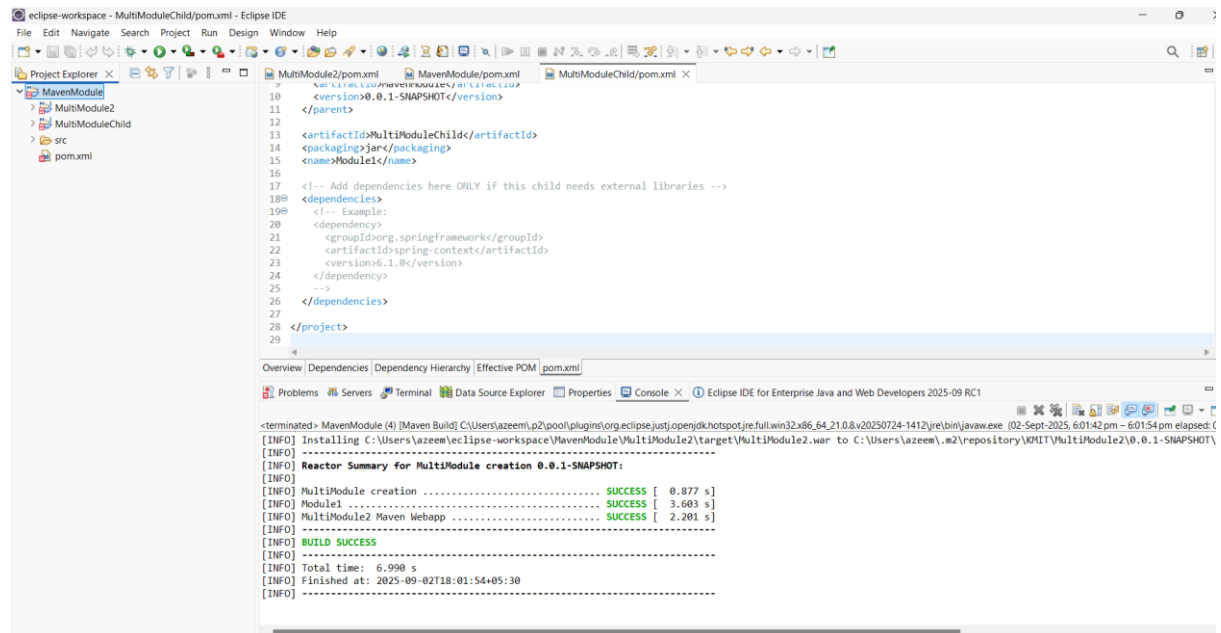
2. **Now build the child2 by right clicking it and opting run as->maven build.**
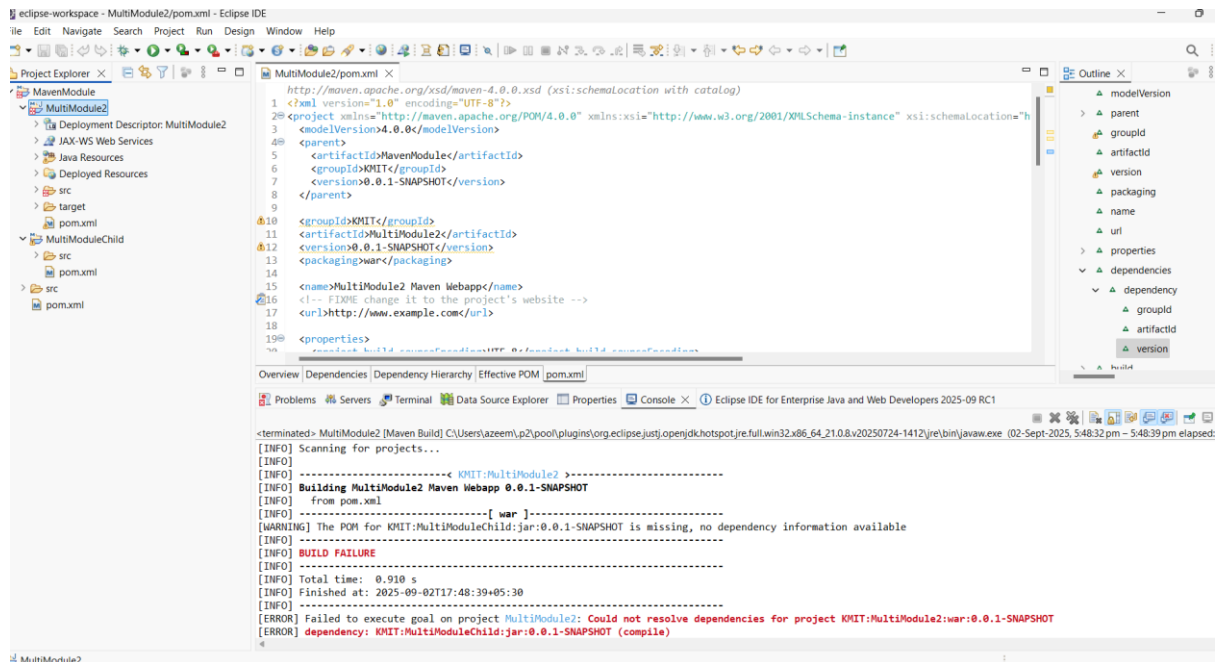
3. **The build will be a *failure.* Because we haven't build the parent project and the child project. Child1 is dependent on parent. And Child2 is dependent on child2. SO we have to build ass the previous module first and then build the current child2.**

4.After building parent and child1, build child2 now the build will be a *Success*

Parent

Child 1

Child 2

```
∨ MultiModule
  ∨ MultiModuleChild1
    > src/main/java
    > src/main/resources
    > src/test/java
    > src/test/resources
    > JRE System Library [JavaSE-1.8]
    > src
    > target
      pom.xml
  ∨ MultiModuleChild2
    > Deployment Descriptor: Archetype Cr
    > target
    > Java Resources
    > Deployed Resources
    > src
      pom.xml
  > src
    pom.xml
```

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