ASD Project

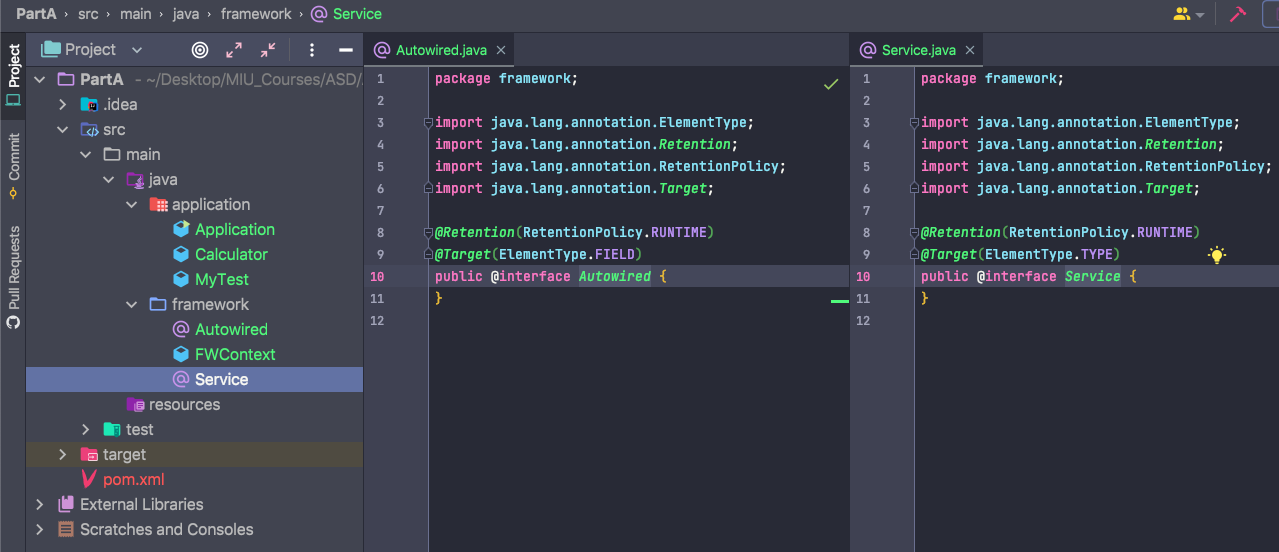
Member:

* Tri An Vuong - ID 615629
* Dinh Huy Dang - ID 615944

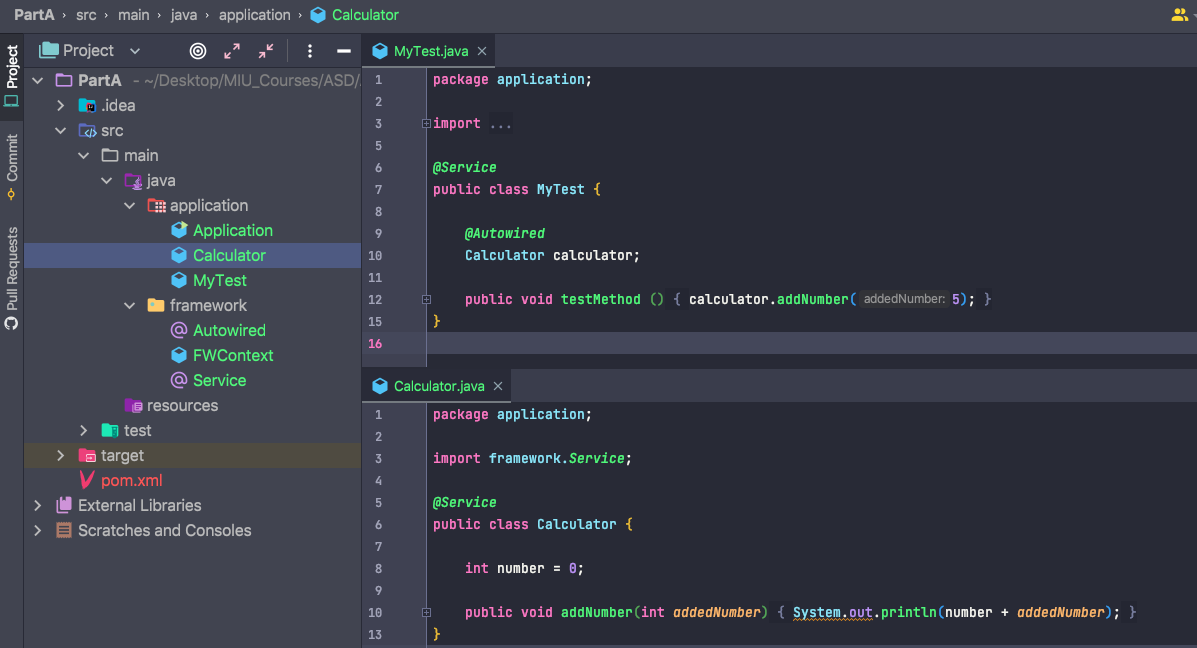
**Part A:**

Write your own Spring Framework that instantiates all classes that are annotated with @Service. The framework should also apply dependency injection to all fields that are annotated with @Autowired.

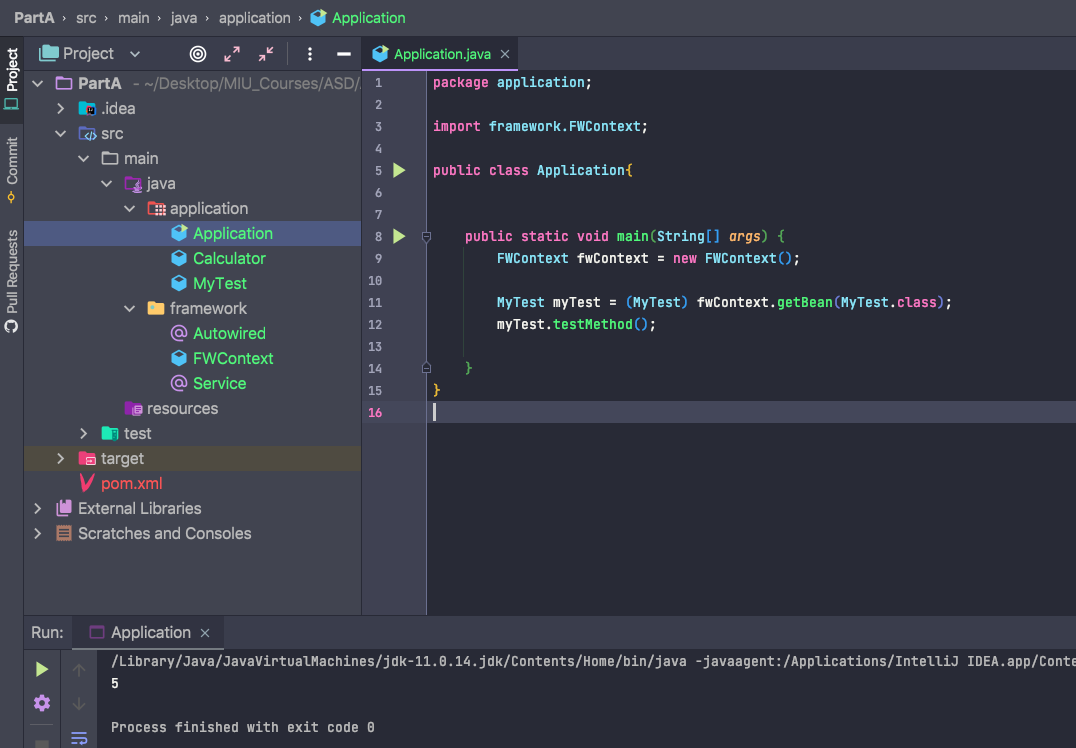
* Define annotation @Autowired and @Service



* In application, we create Calculator and MyTest service. The MyTest service inject Calculator

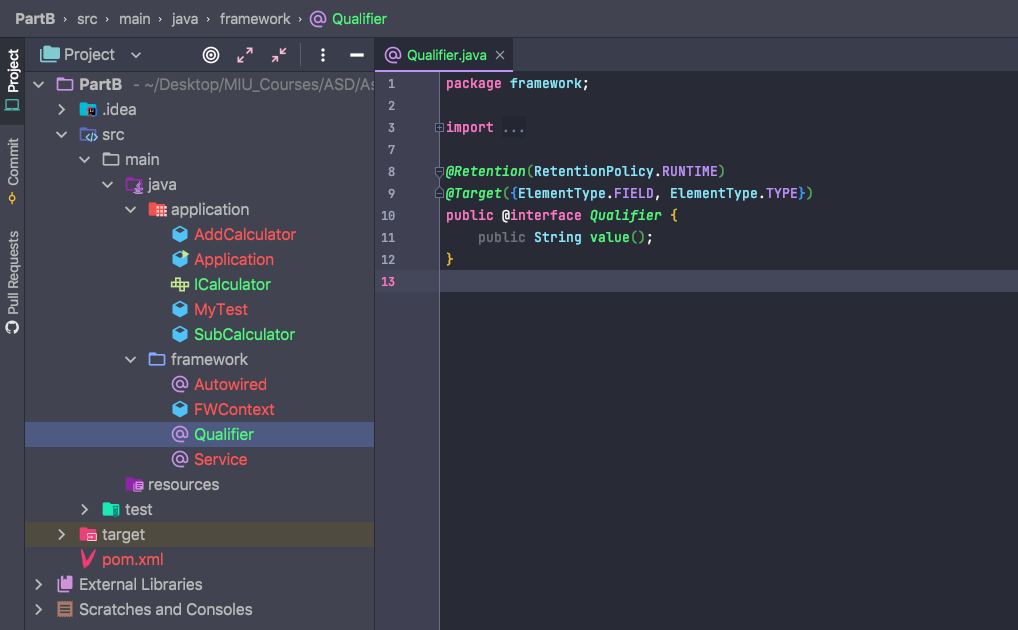


* Run Application successfully

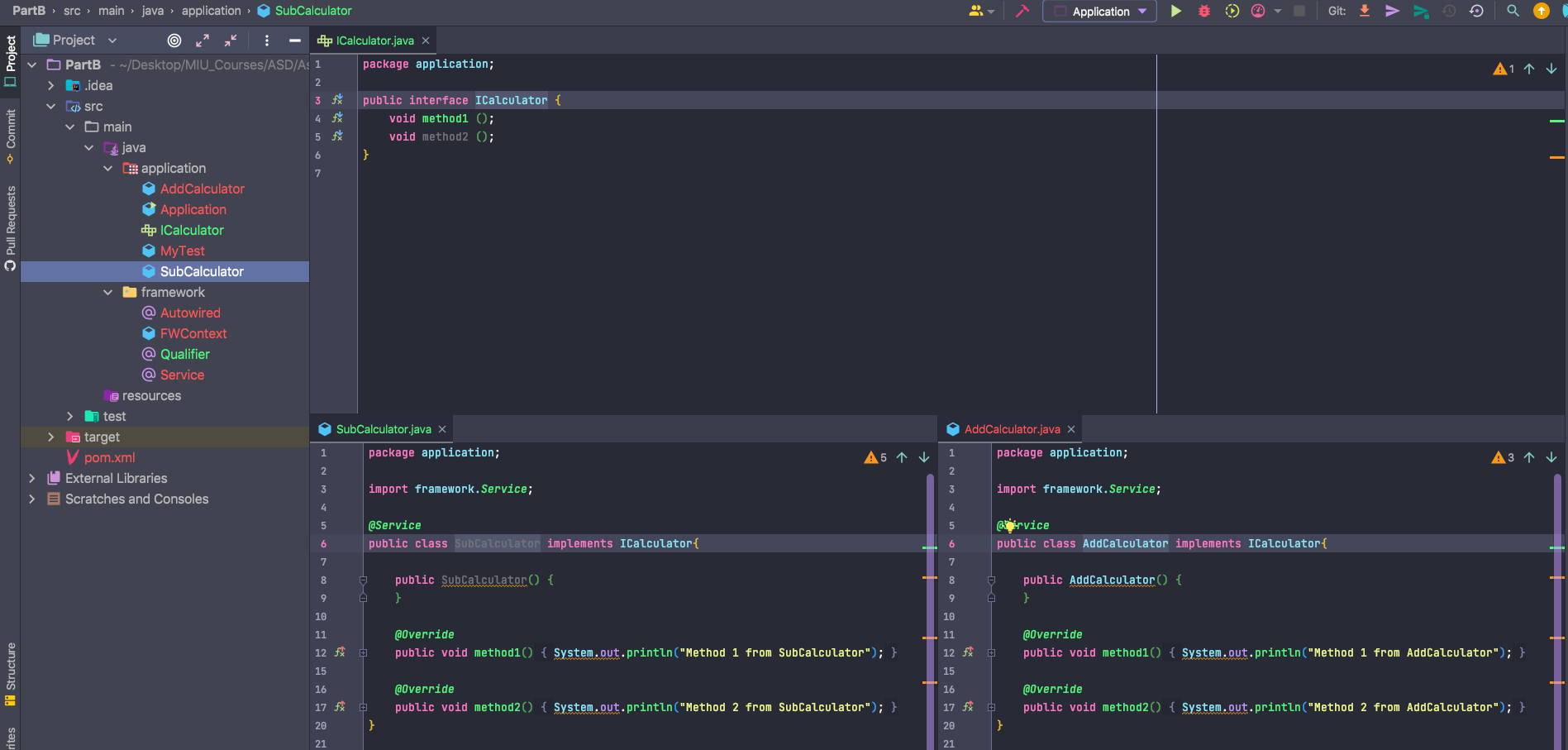


**Part B**

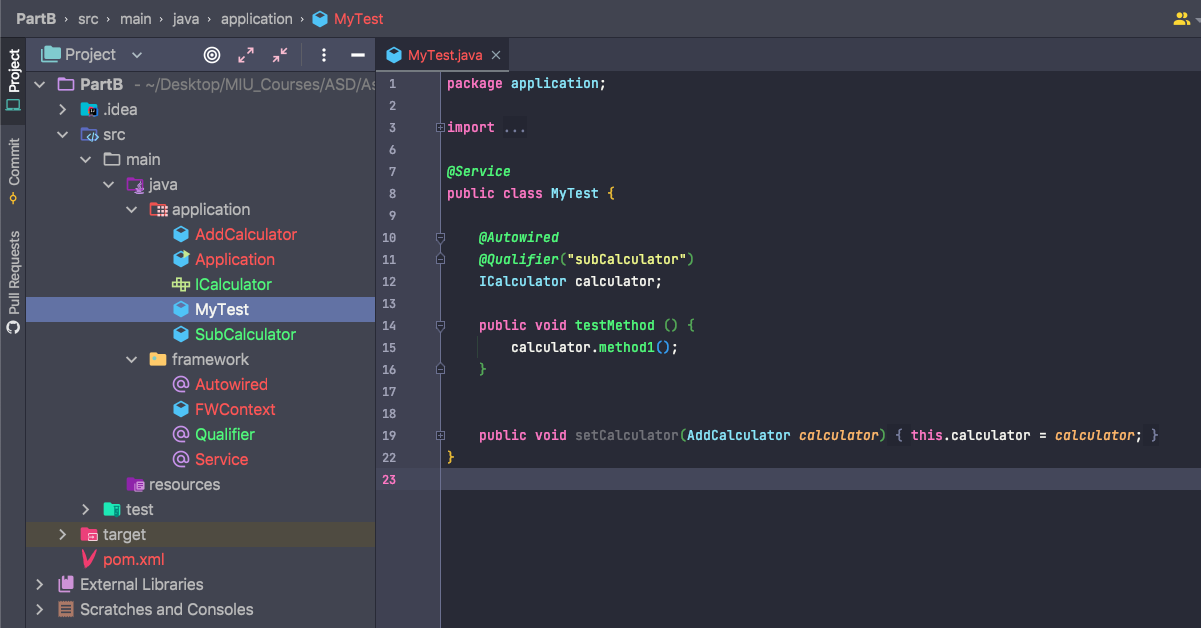
* Create annotation @Qualifier



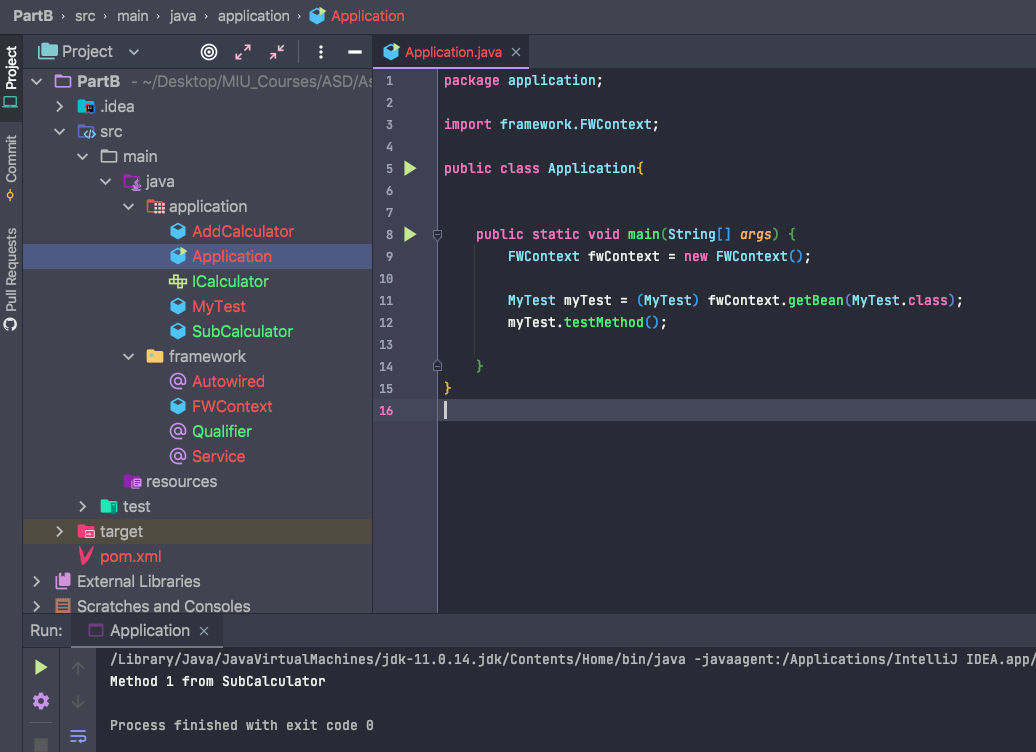
* AddCalculator and SubConculator implement IConculator interface



* MyTest service inject IConculator with @Qualifier value point to SubCalculator Service

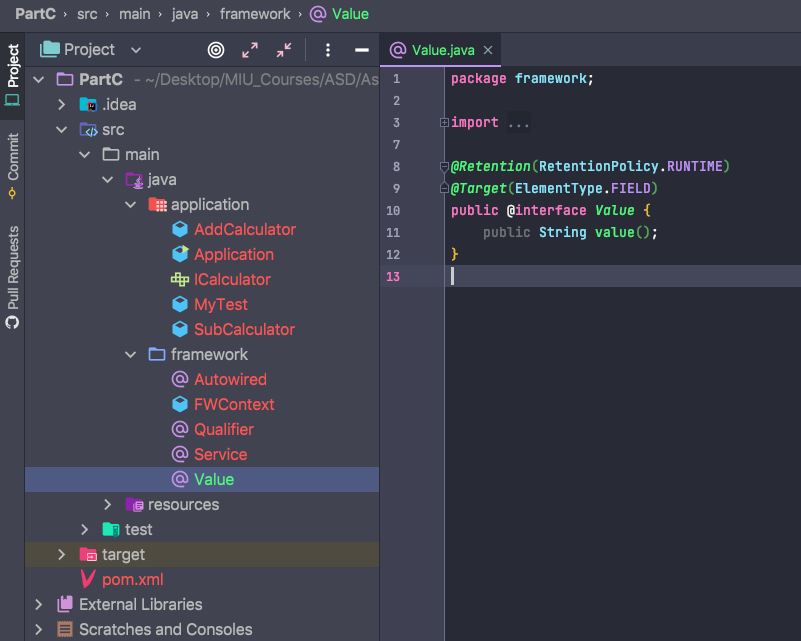


* Run Application successfully

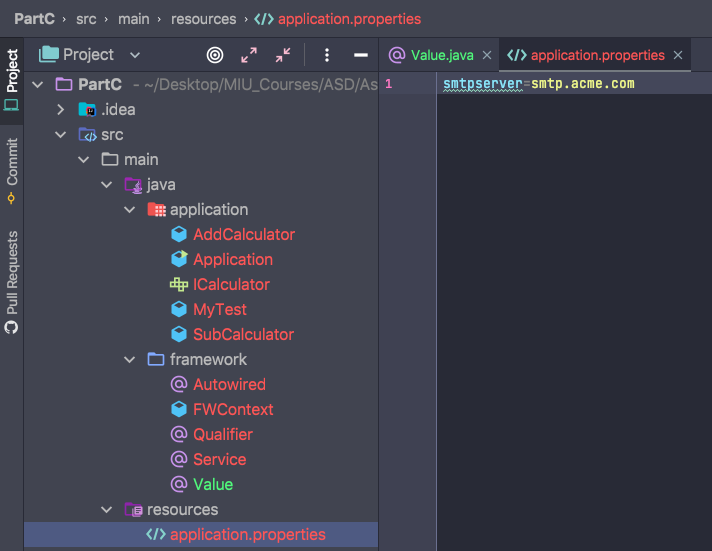


Part C

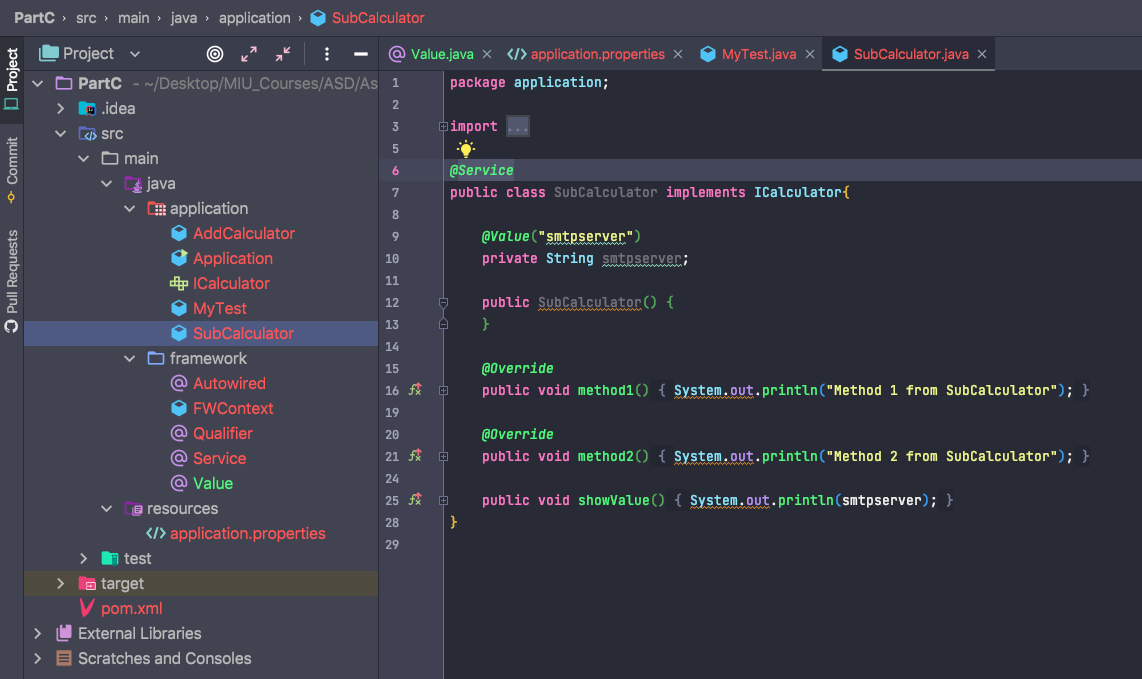
* Create annotation @Value



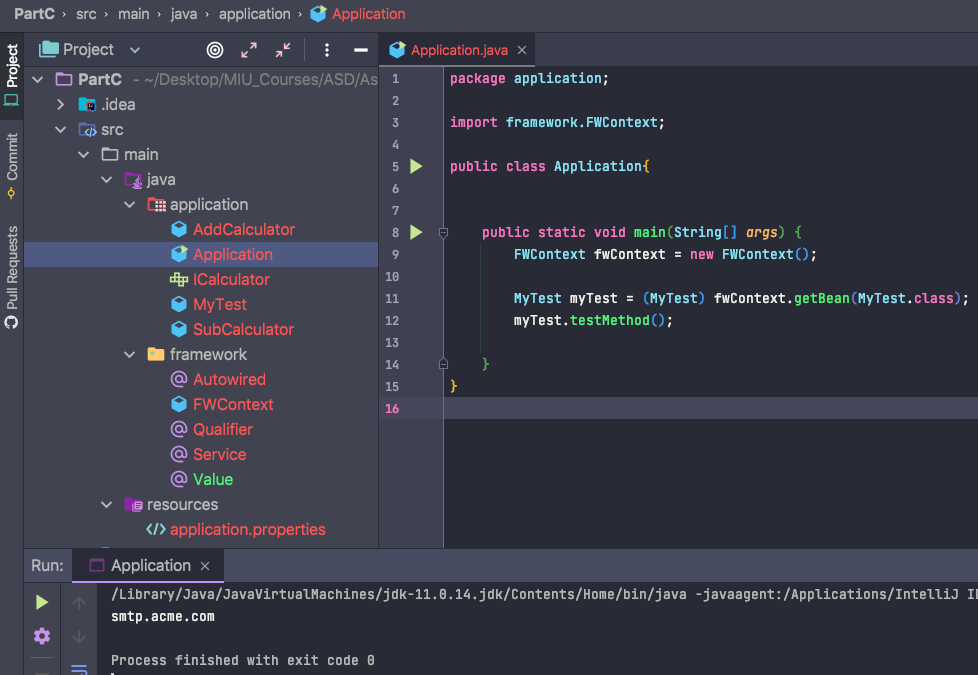
* Create application.properties



* In SubCalculator service, create variable with @Value annotation to get value from application.properties

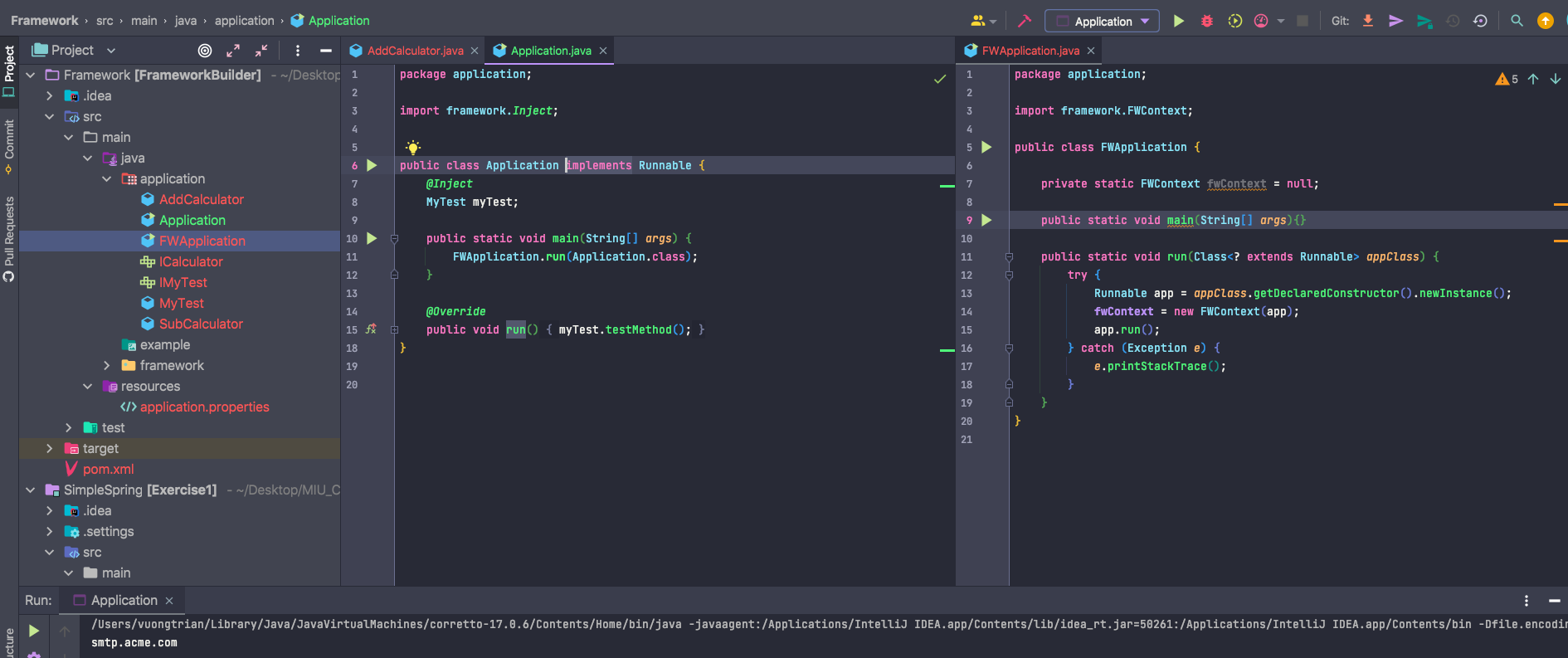


* Run application successfully

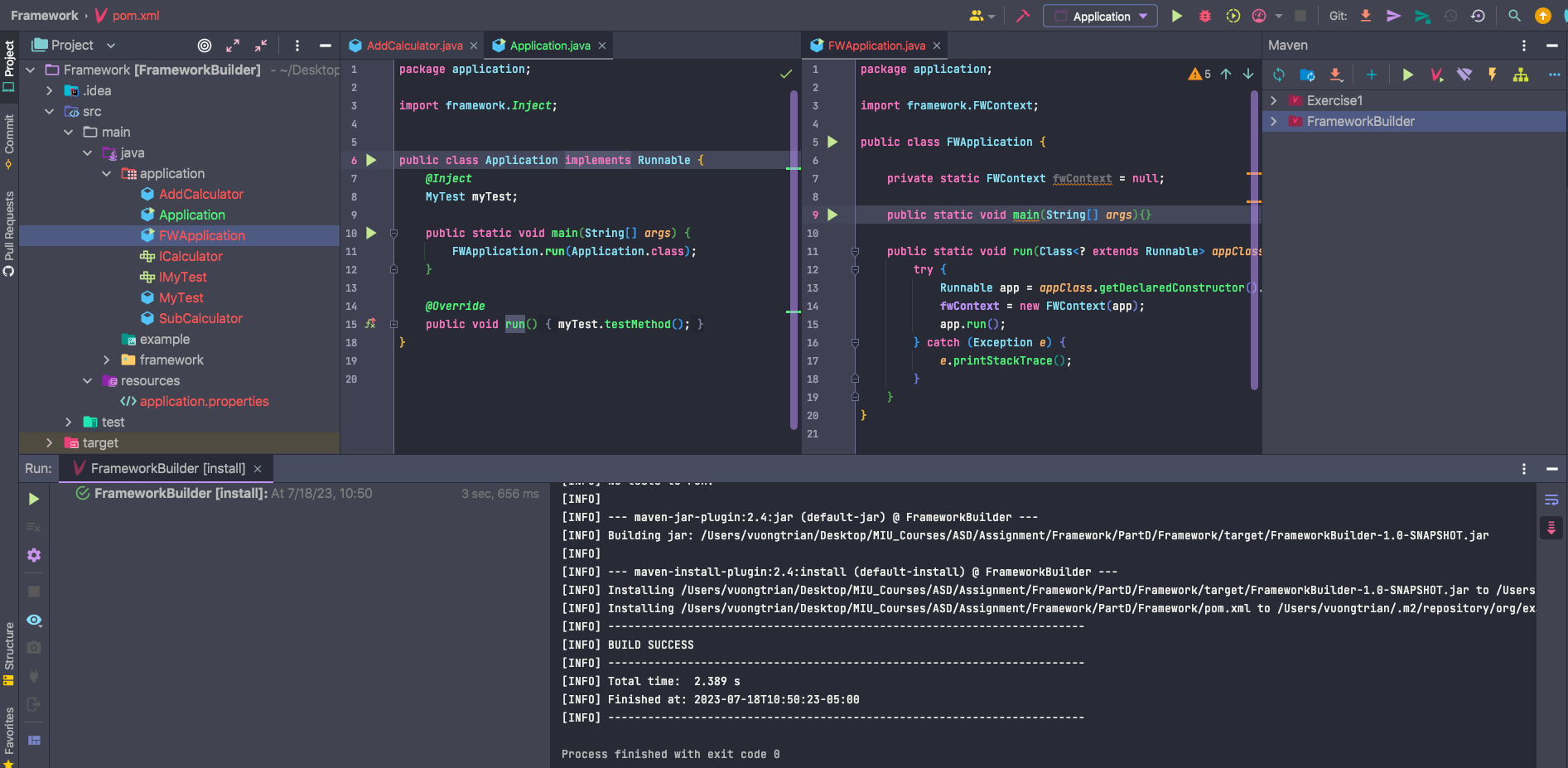


Part D

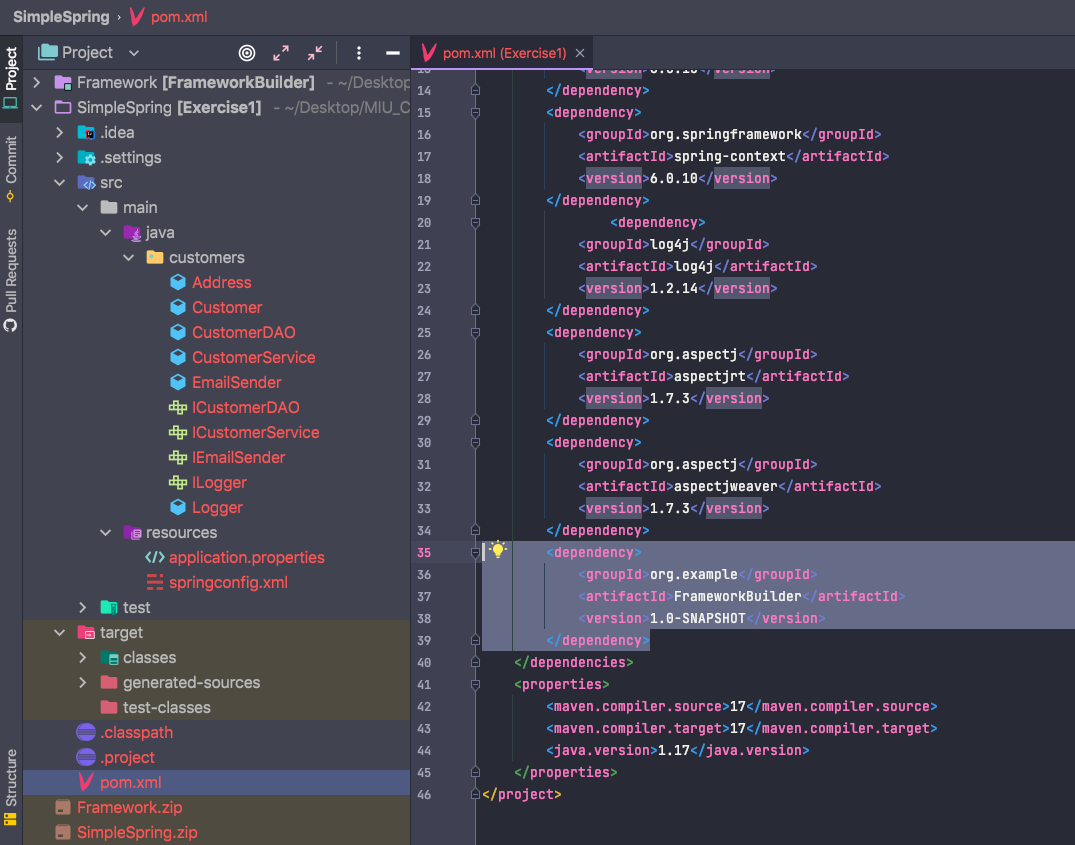
* Create FWApplication with run method. Then Application can implement Runnable and run Application successfully.



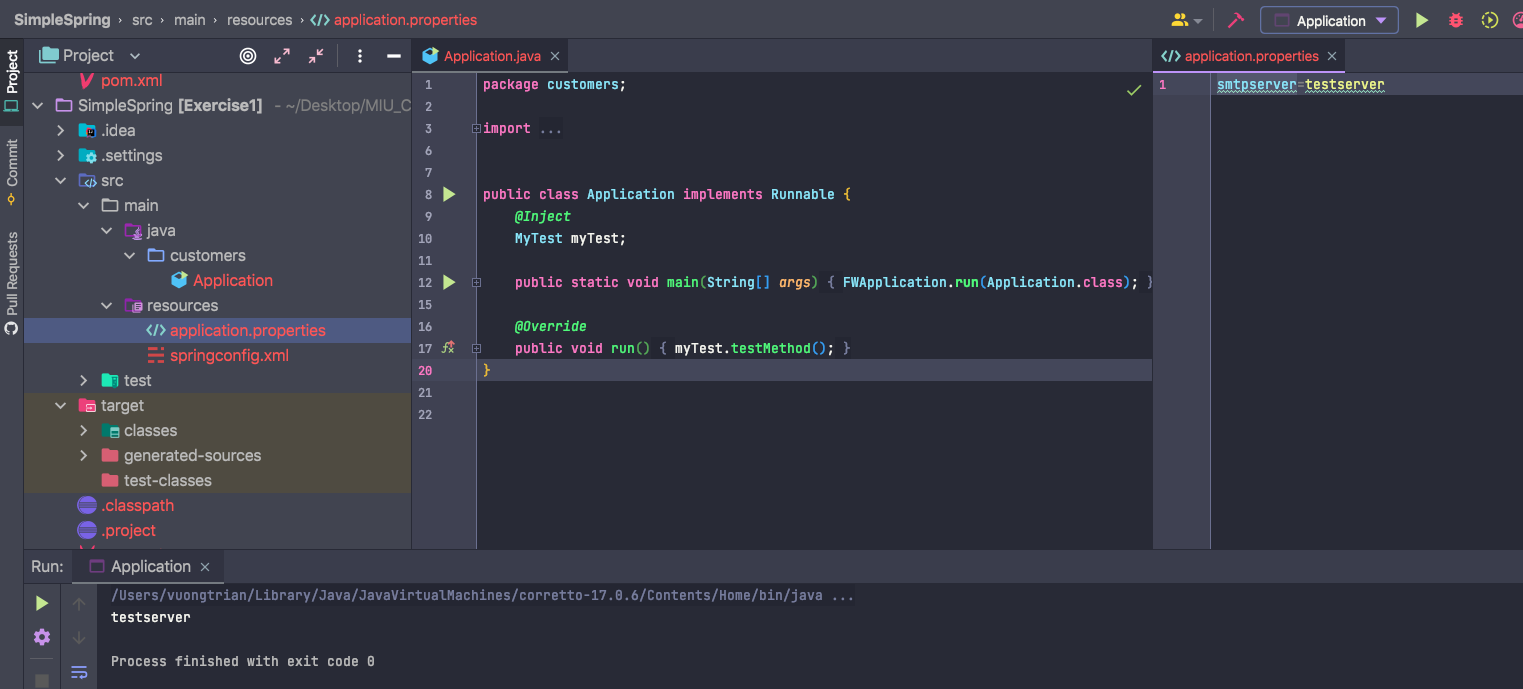
* Build maven to Jar file



* In Spring application, add dependency of Framework

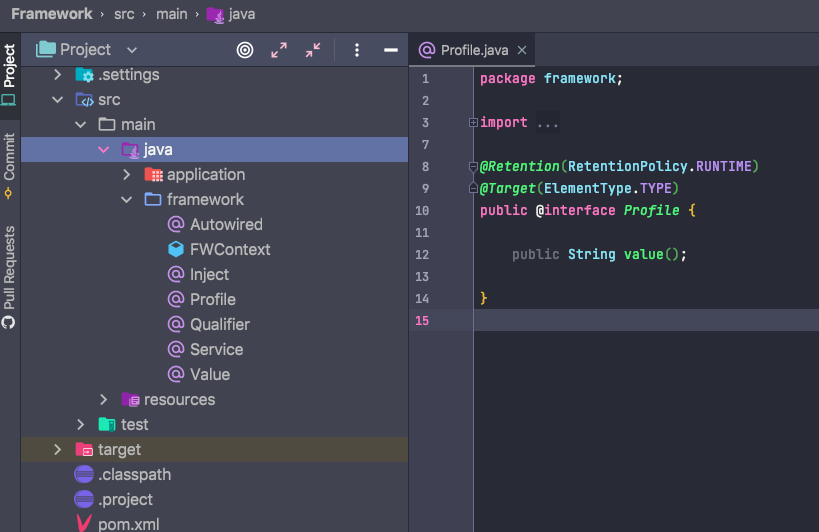


* Run Spring application successfully

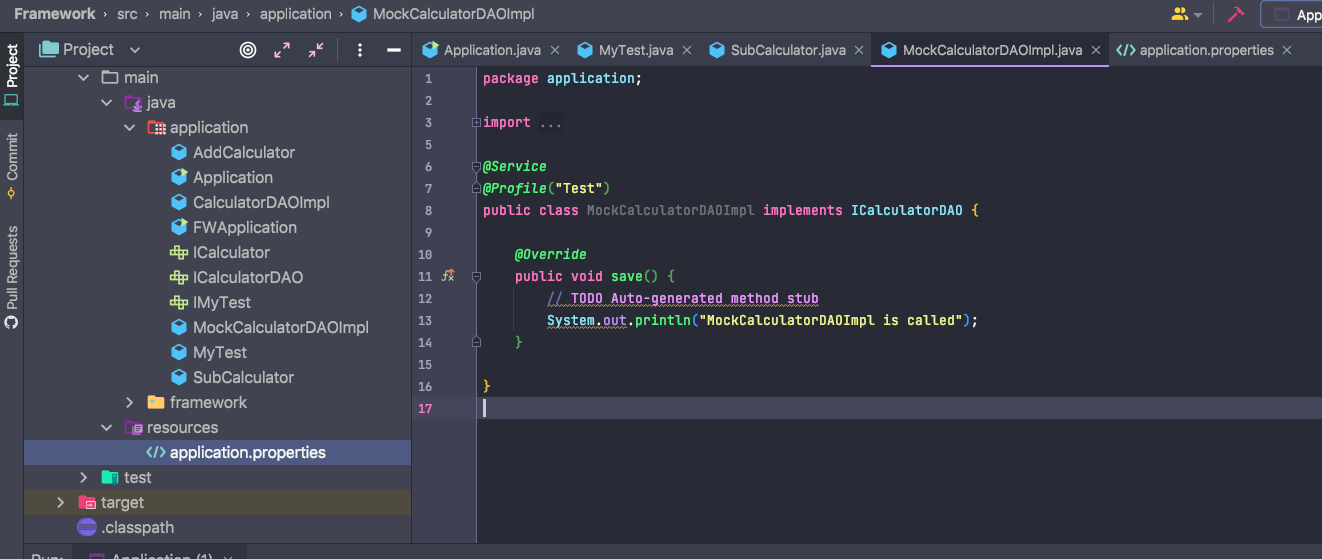


Part E

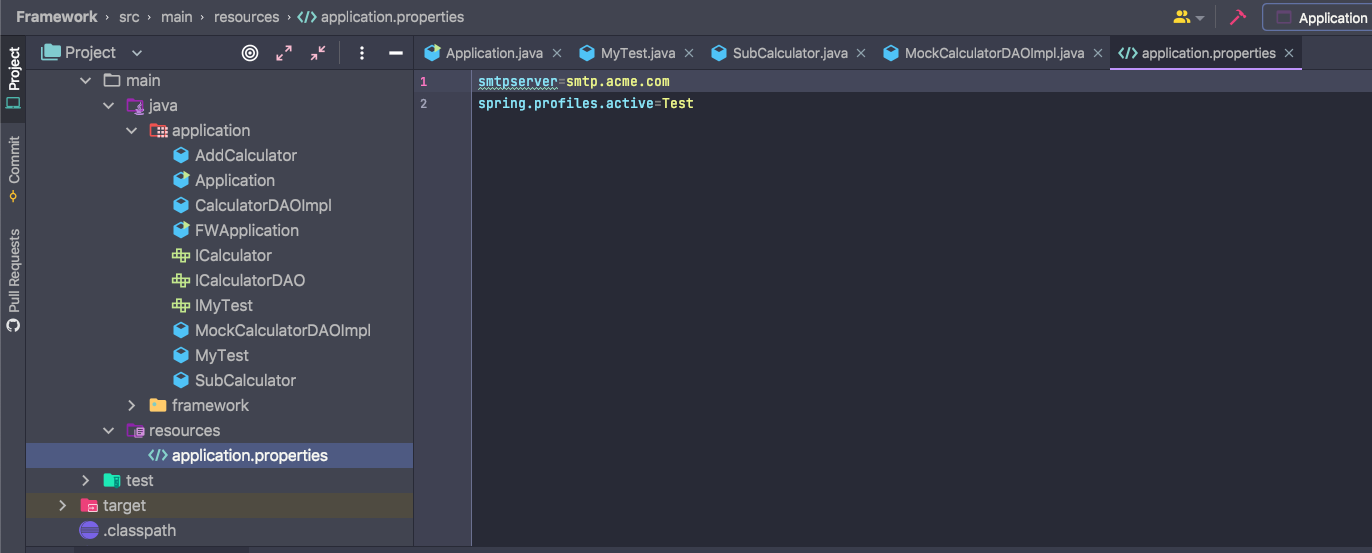
* Create @Profile annotation



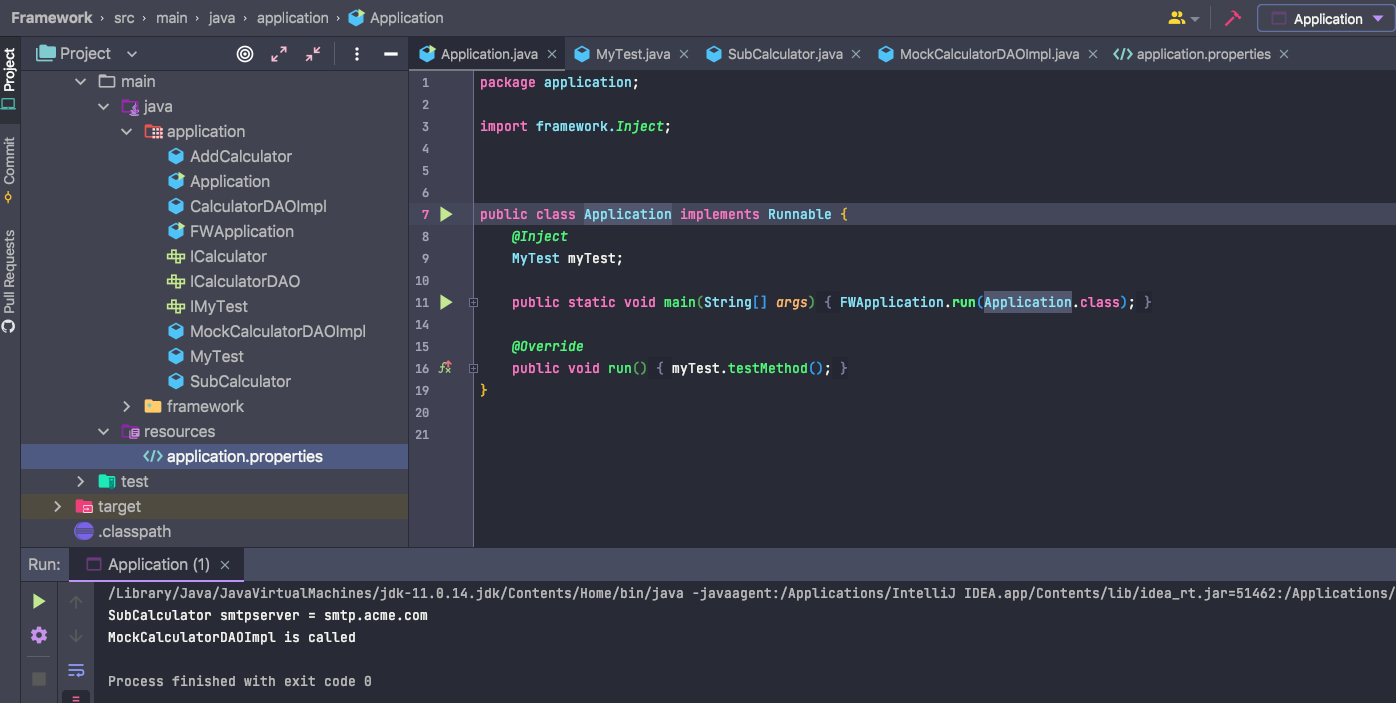
* Create MockCalculatorDAOImp with @Profile annotation, value is Test



* Active profile Test in application.properties

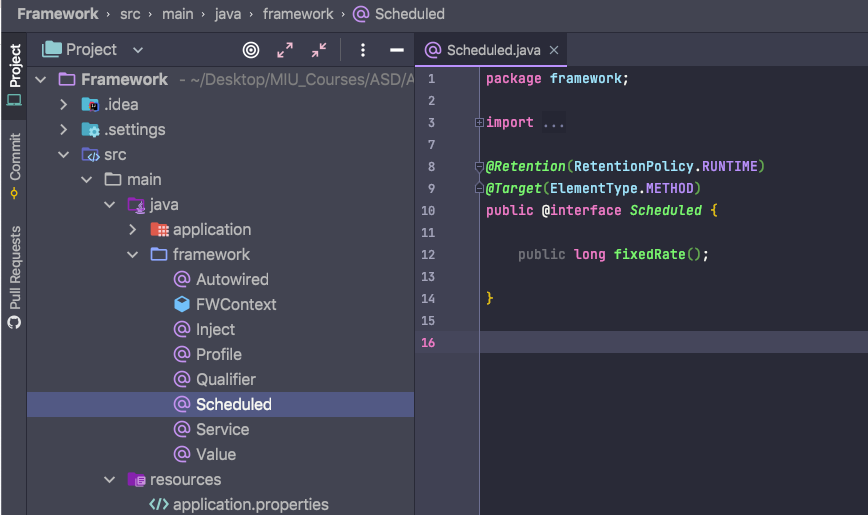


* Run application successfully



Part F

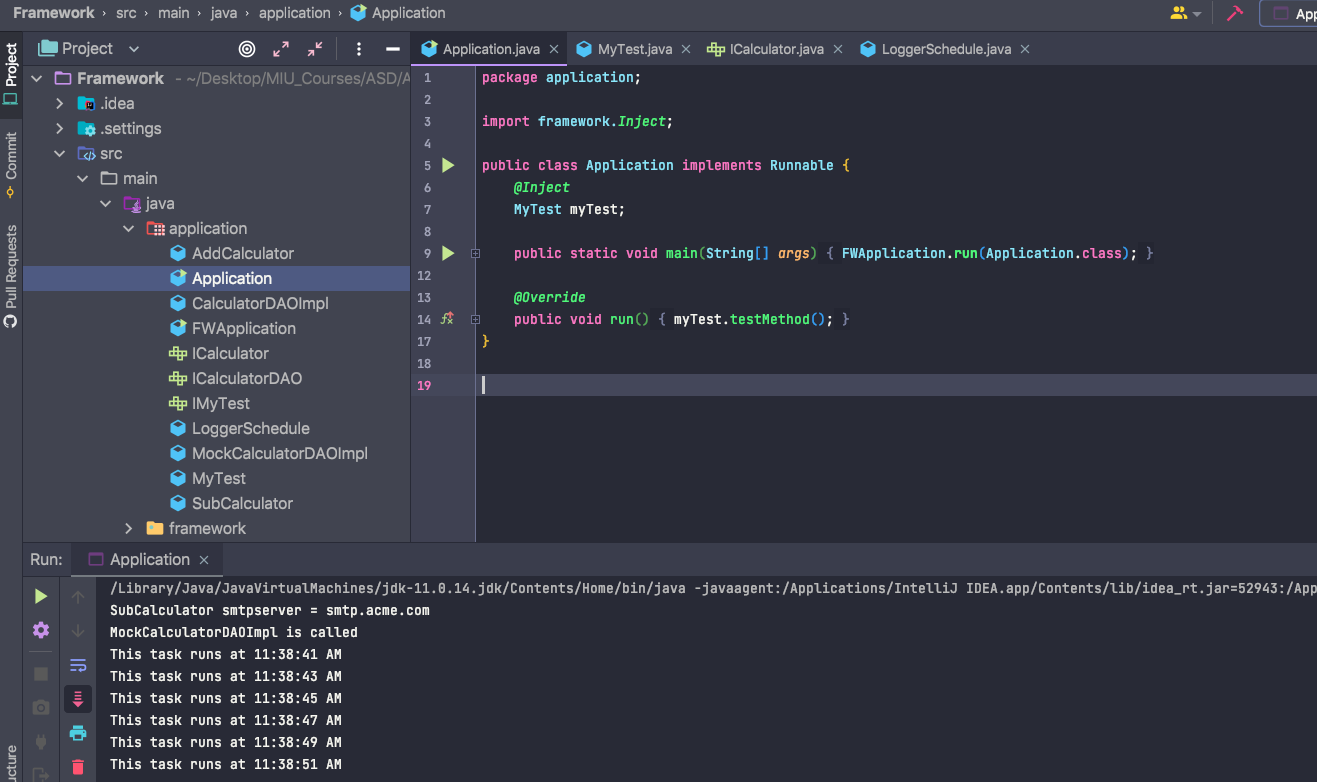
* Create @Schedule annotation



* Create LoggerSchedule and set @Schedule with 2 seconds

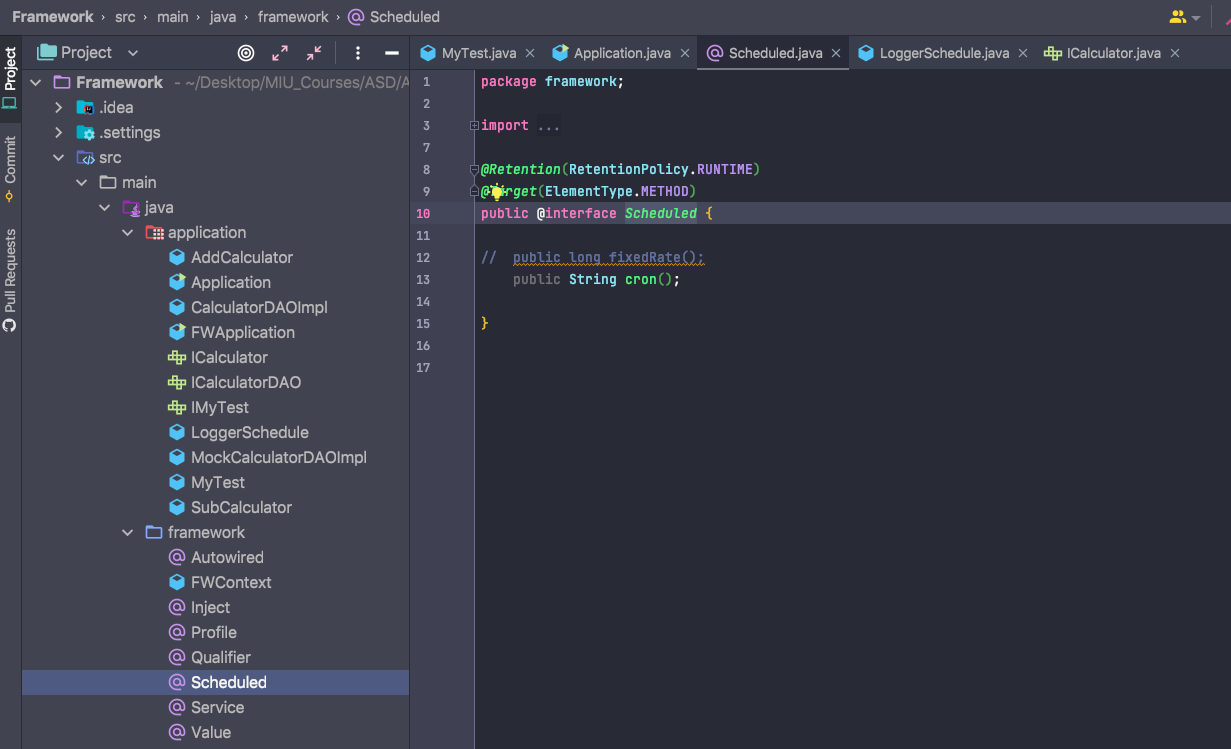


* Run application successfully



Part G

* Modify @Schedule annotation



* Modify LoggerSchedule



* Run application successfully

