ASSIGNMENT 2

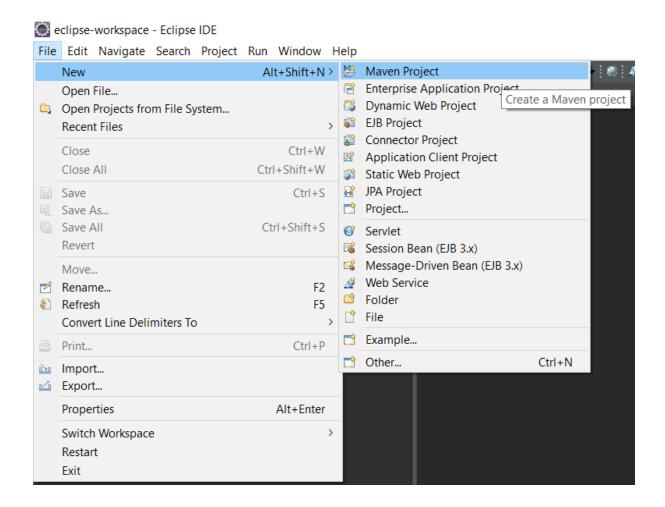
Submitted by: Hridyanshu Roll Number: R171218047 SAP ID: 500068500

• Pushing a Maven project build to the Nexus repository.

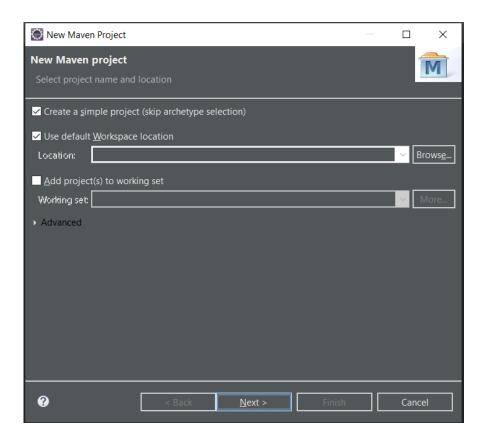
The goal here is to create a Maven project using Eclipse IDE and then finally pushing its build to the Nexus repository using Jenkinsfile.

To achieve the goal, the steps that are needed to be followed are:

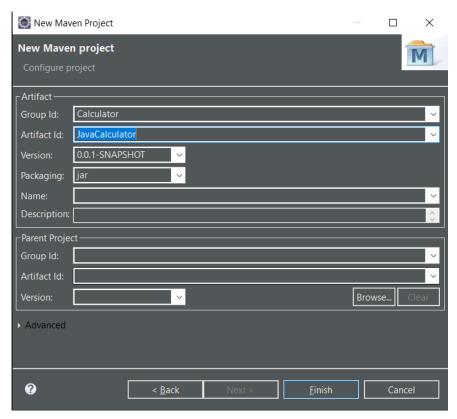
1. Create a new Maven Project using Eclipse IDE.



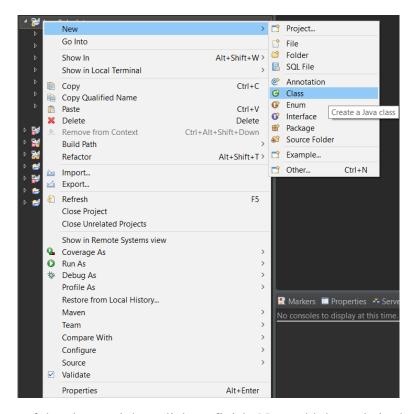
Check the "create a simple project" checkbox and click Next.



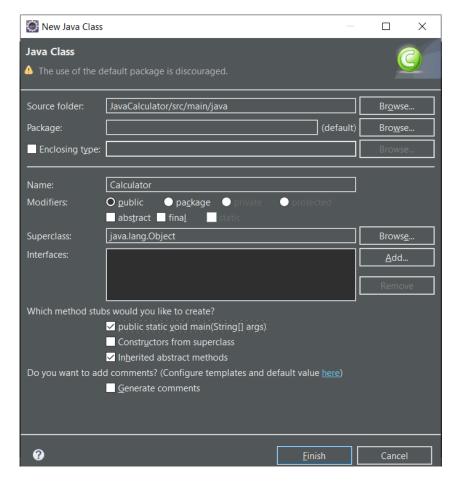
Next you will be asked to provide the artifact ID and Group ID for the project. Provide the names and then click Finish. Here, I am building a simple four function calculator using Java language.



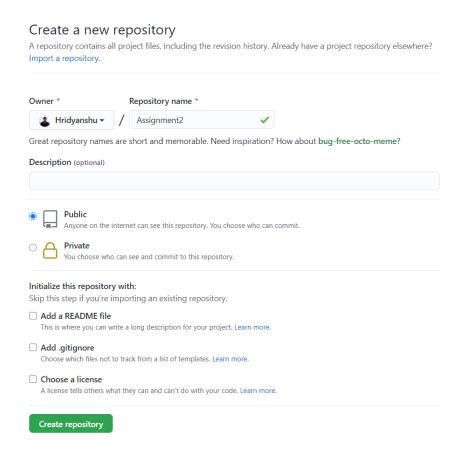
2. Add a new class to the project. To do so, right click on the project then click on New and then Class.



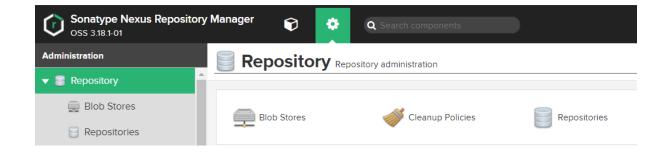
Provide the name of the class and then click on finish. Now add the code in the class.

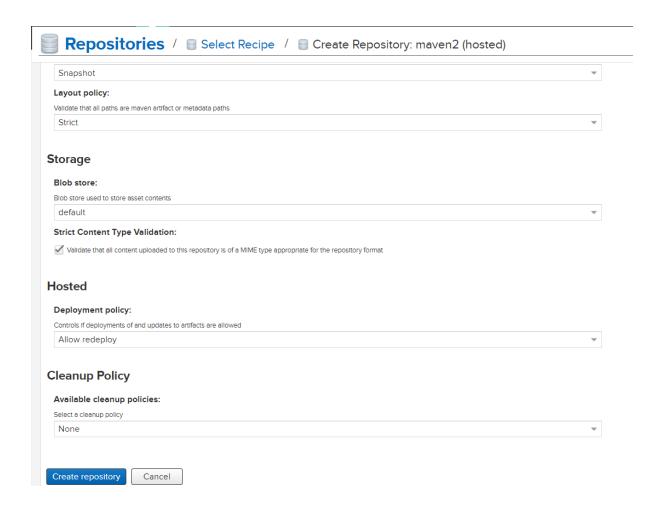


3. After writing code file, the project is ready. Now create a repository on GitHub to store the project source code.



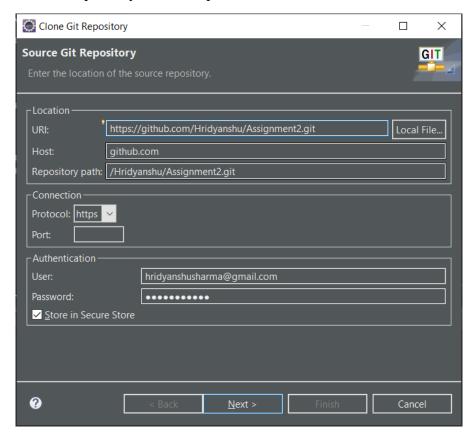
- 4. Now start your nexus server by using the following command: nexus.exe /run
- 5. Create a new maven hosted repository on nexus.



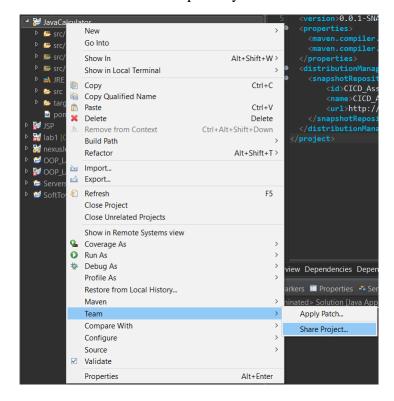


6. Add the distributionManagement tag in the pom.xml file of the project and provide the name, id and url of the Nexus repository there.

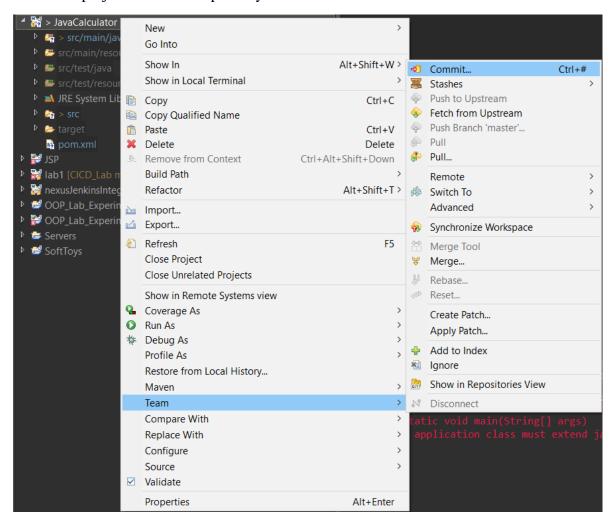
7. Clone the GitHub repository in the Eclipse IDE.

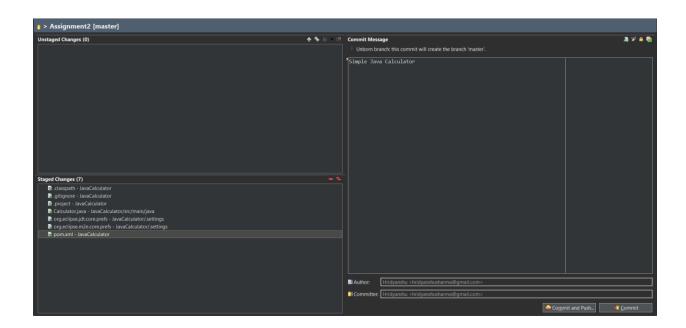


8. Link the project with the cloned GitHub repository.

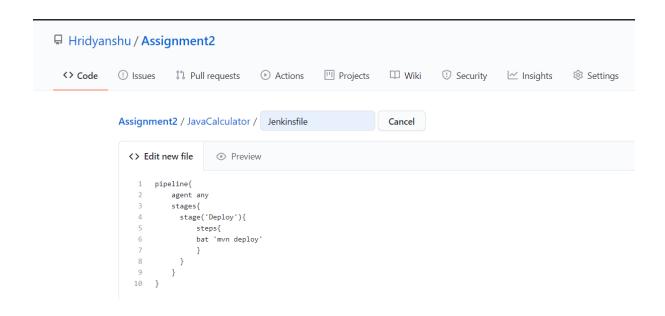


9. Push the project to GitHub repository.

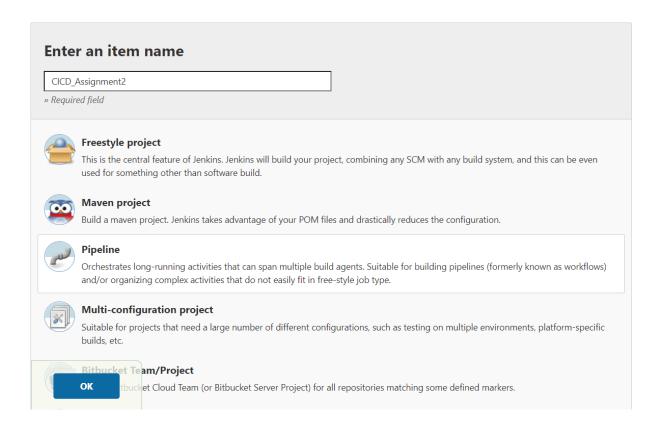


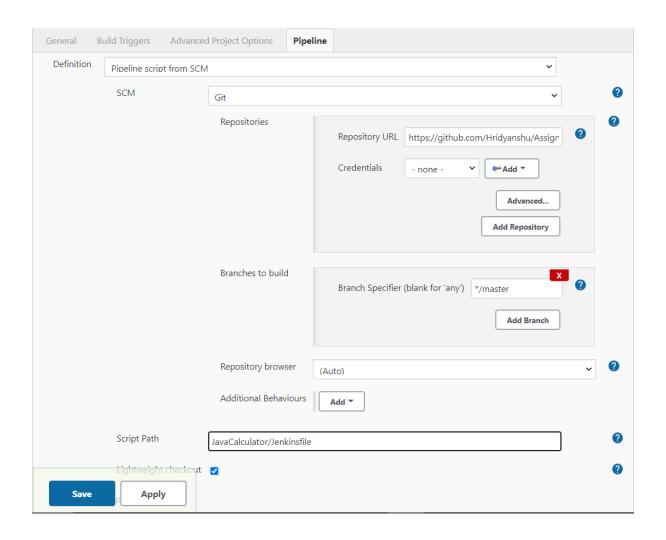


10. Create a Jenkinsfile in the Github repository to with a deploy stage as follows:



11. Create a new pipeline project in Jenkins and link that project to the above made GitHub repository. Provide the path to the Jenkinsfile as well.





```
0.0.1-SNAPSHOT.pom
[INFO] --- maven-deploy-plugin:2.7:deploy (default-deploy) @ JavaCalculator ---
Downloading from CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/maven-metadata.xml Uploading to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/JavaCalculator-0.0.1-20201119.182605-1.jar
Progress (1): 2.0 kB
Uploaded to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/JavaCalculator-0.0.1-20201119.182605-1.jar (2.0 kB at 60
Uploading to CICO_Assignment2: http://localhost:8081/repository/CICO_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/JavaCalculator-0.0.1-20201119.182605-1.pom
Uploaded to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/JavaCalculator-0.0.1-20201119.182605-1.pom (757 B at 87
Downloading from CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/maven-metadata.xml
Uploading to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/maven-metadata.xml
Progress (1): 774 B
Uploaded to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/0.0.1-SNAPSHOT/maven-metadata.xml (774 B at 179 B/s)
Uploading to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/maven-metadata.xml
Progress (1): 284 B
Uploaded to CICD_Assignment2: http://localhost:8081/repository/CICD_Assignment2/Calculator/JavaCalculator/maven-metadata.xml (284 B at 110 B/s)
[INFO] --
 [INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:10 min
[INFO] Finished at: 2020-11-19T23:56:53+05:30
 [INFO] -----
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
 [Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

After successful build, the artifact is pushed to Nexus repository.

