

Create Pipeline using Jenkinsfile

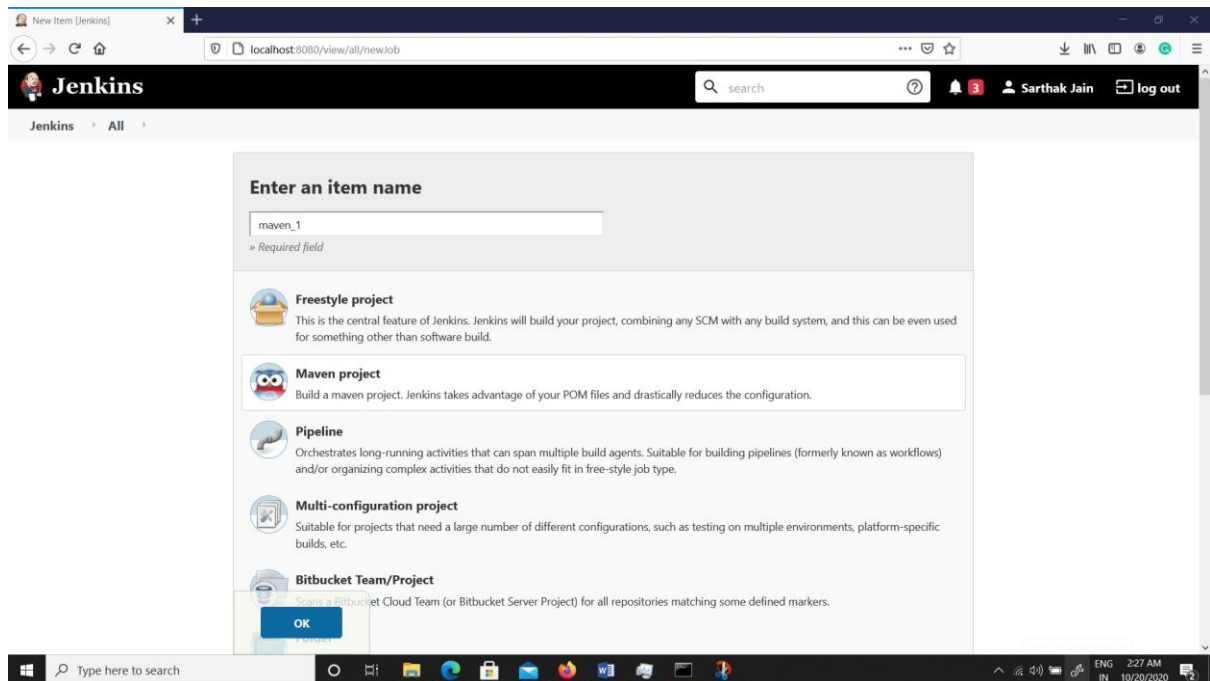
- Start the Jenkins service using the `java -jar jenkins.war` command in the command prompt
- Go to the Jenkins dashboard at `localhost:8080`

The screenshot displays the Jenkins dashboard interface. The top navigation bar includes the Jenkins logo, a search bar, and user information for Sarthak Jain. The left sidebar lists various navigation options. The main content area shows a table of jobs with columns for status, icon, name, last success, last failure, last duration, and favorite status. The jobs listed are Blue-Ocean, CICD_LAB5, maven, maven-1, and Maven_git. The bottom status bar indicates the current state of the Jenkins master node.

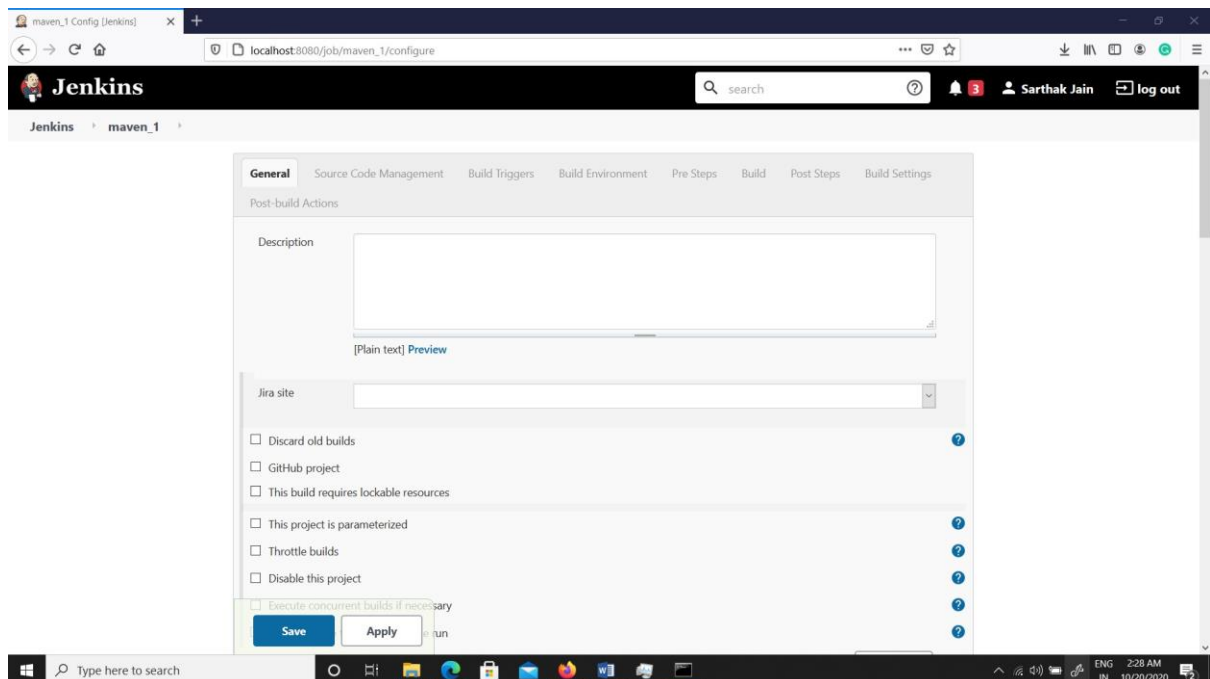
S	W	Name	Last Success	Last Failure	Last Duration	Fav
		Blue-Ocean	1 mo 4 days - log	N/A	3.1 sec	
		CICD_LAB5	1 mo 7 days - #2	1 mo 7 days - #1	18 sec	
		maven	6 days 13 hr - #2	N/A	13 sec	
		maven-1	6 days 14 hr - #8	6 days 14 hr - #5	58 ms	
		Maven_git	N/A	N/A	N/A	

LAB 6

- Click on the new item option
- Select the maven project option
- Give a name to the project
- Click ok

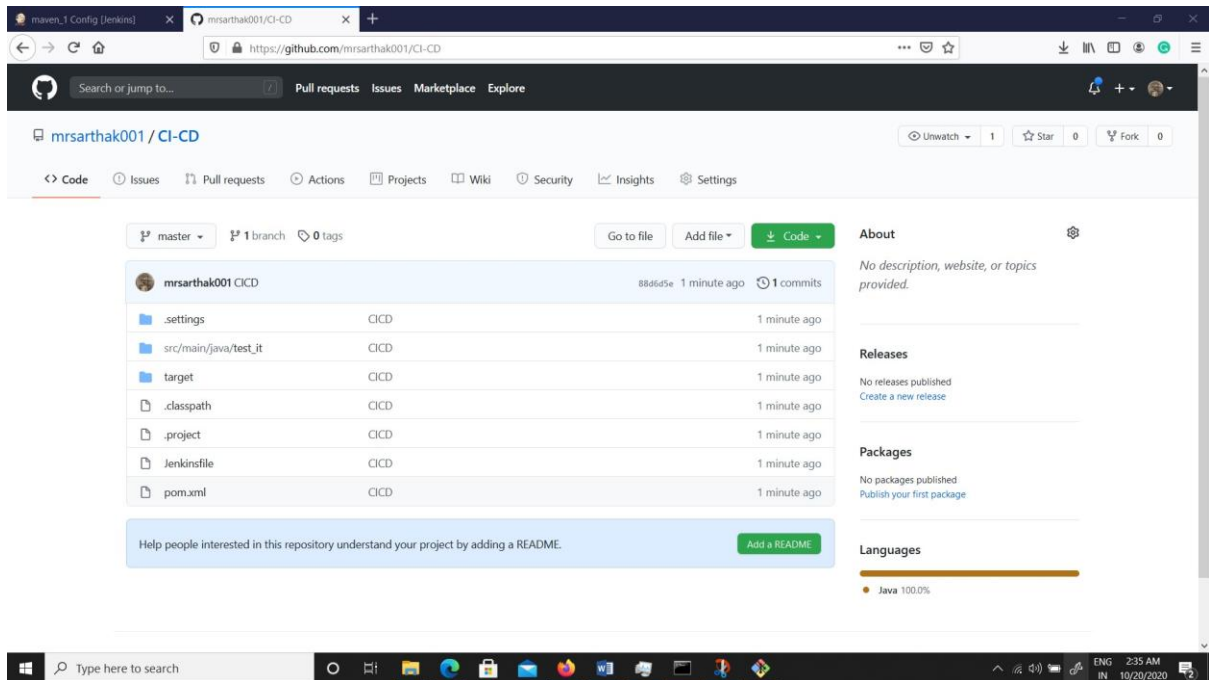


- You will be directed to a page similar to this.
- Click on the source code management tab to add the github repository

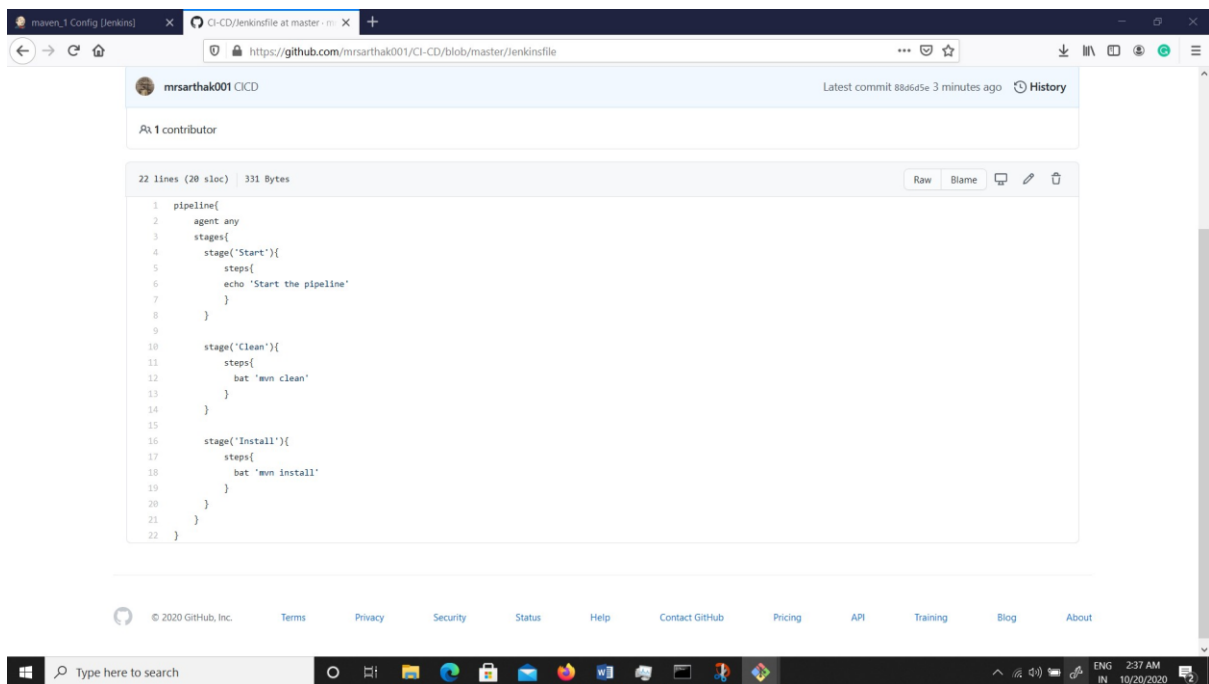


LAB 6

- Visit the repository where you saved your maven project
- Copy the location of the github repository

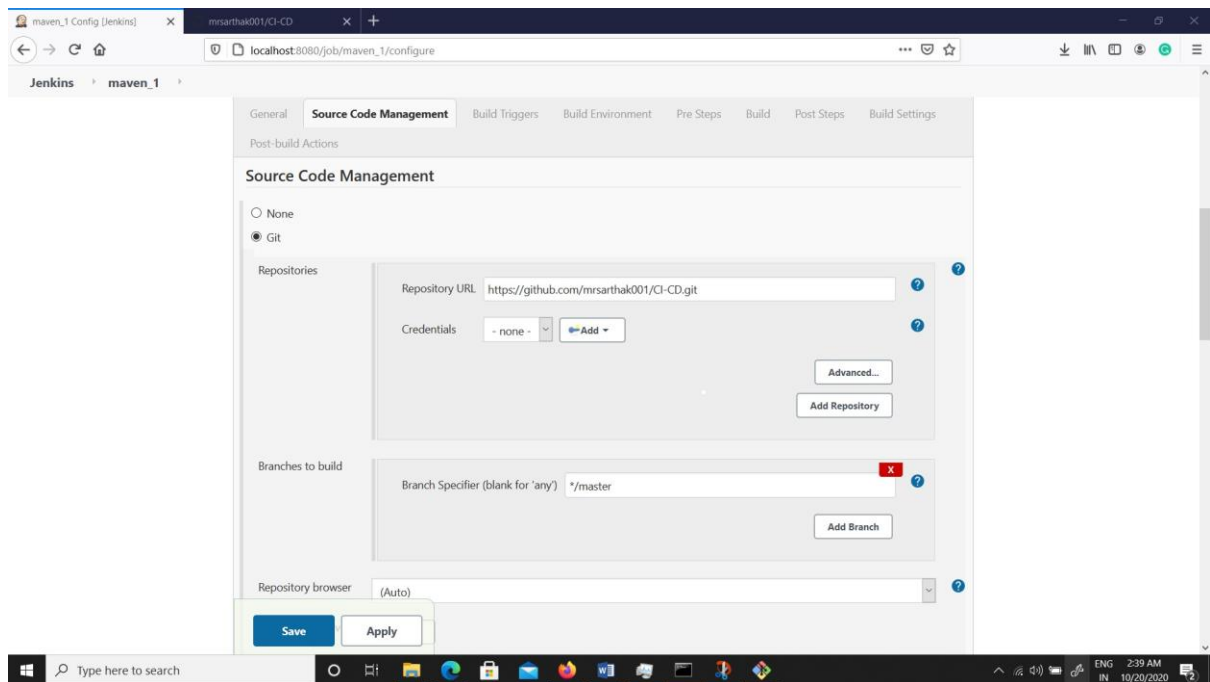


- The github repository has to contain a file named “Jenkinsfile” that tells the Jenkins server what tasks to do.
- In this example, it asks the Jenkins server to run 3 commands in 3 stages namely
- echo “Start the Pipeline” ; mvn clean ; mvn install

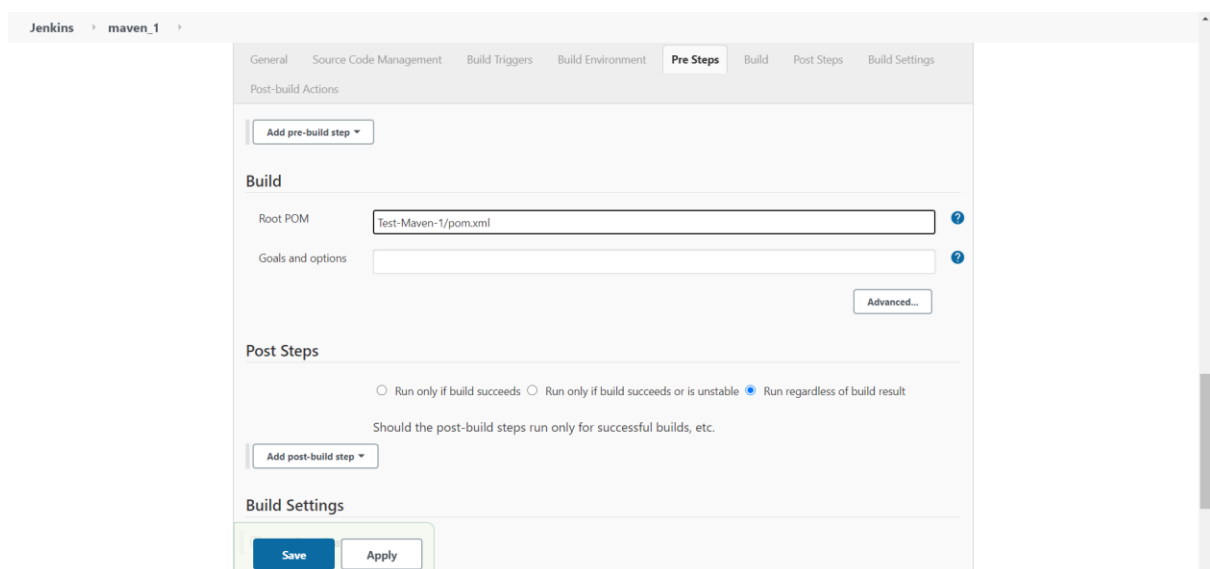


LAB 6

- In the Source Code Management Section select Git
- Give the repository location in the specified placeholder

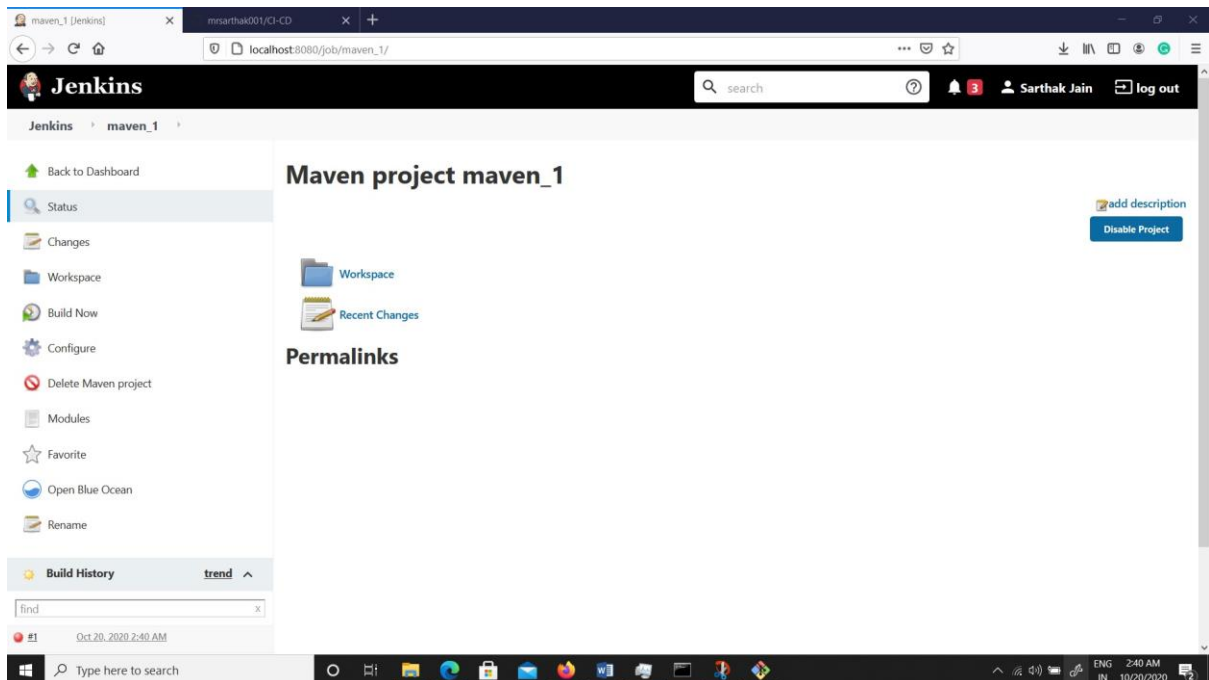


- Go down to the Build Section
- Add the exact location to the pom.xml file.
- If it is inside some folder, specify it as {folder_name}/pom.xml
- In the goals specify “clean, test and install” as the maven goals
- Click save and apply

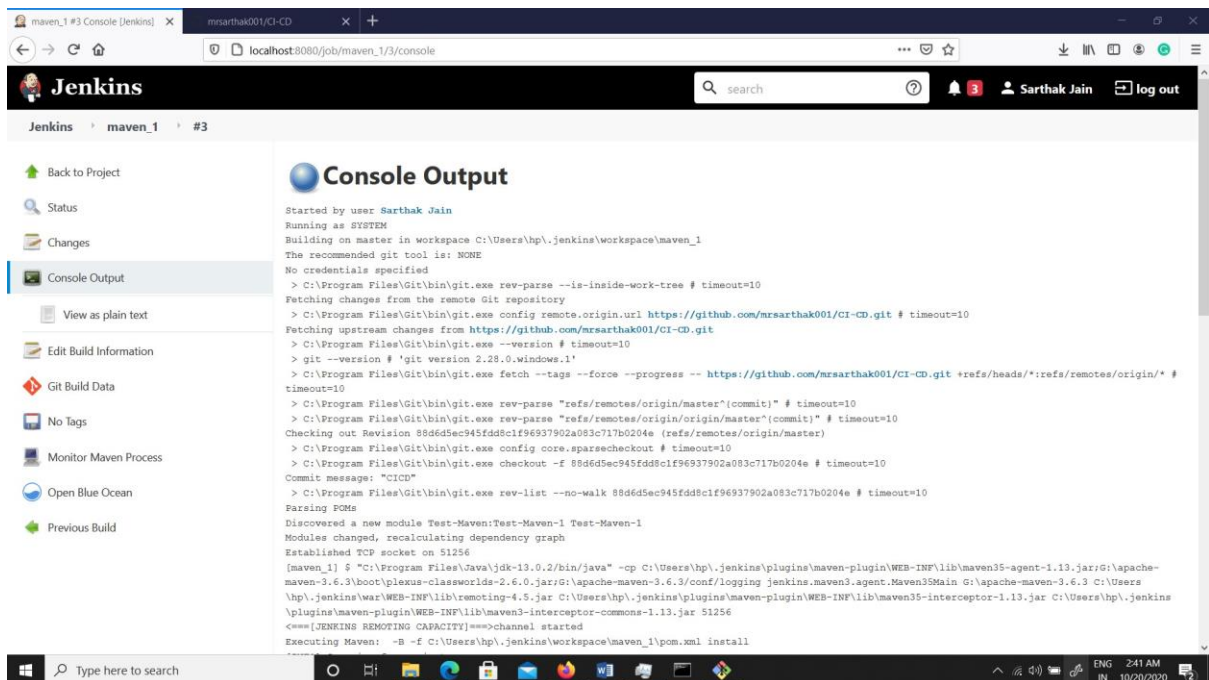


LAB 6

- You would be redirected to a dashboard like this

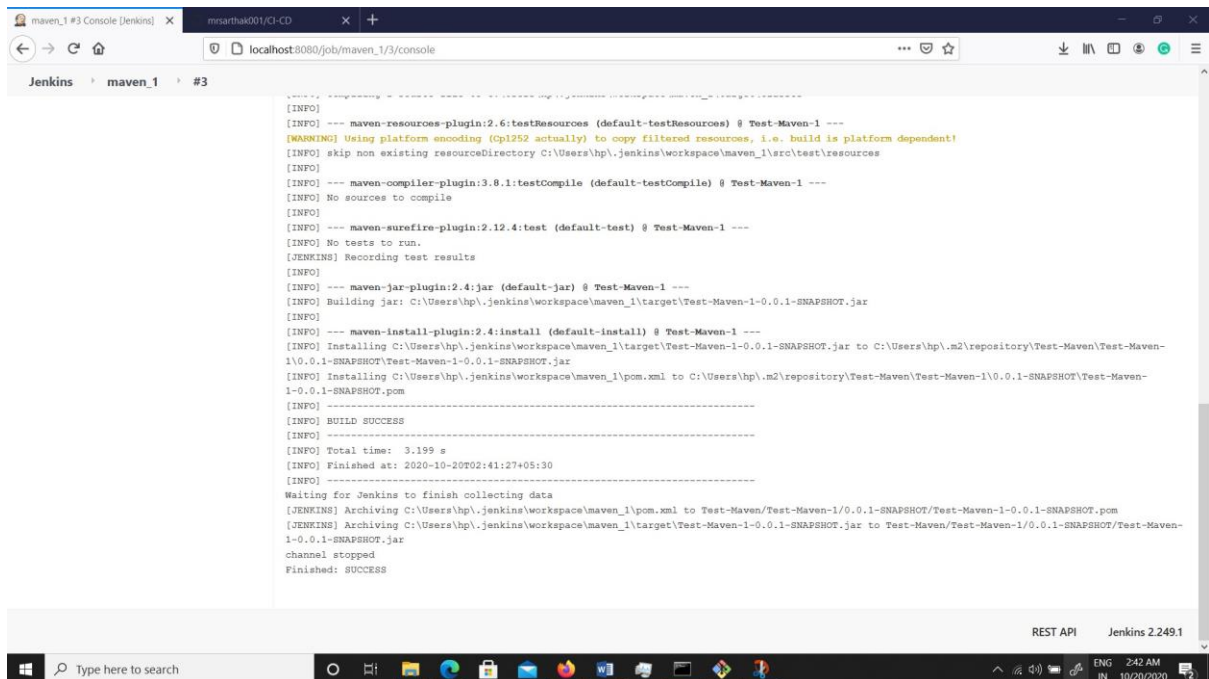


- Click on Build Now option to build the project.
- Select the console output option to check how the build is running



LAB 6

- If the build runs successfully it would return “BUILD SUCCESS”. It would return failure in case of any errors in the project



```
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ Test-Maven-1 ---
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ Test-Maven-1 ---
[WARNING] Using platform encoding (cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\hp\.jenkins\workspace\maven_1\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Test-Maven-1 ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ Test-Maven-1 ---
[INFO] No tests to run.
[JENKINS] Recording test results
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ Test-Maven-1 ---
[INFO] Building jar: C:\Users\hp\.jenkins\workspace\maven_1\target\Test-Maven-1-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ Test-Maven-1 ---
[INFO] Installing C:\Users\hp\.jenkins\workspace\maven_1\target\Test-Maven-1-0.0.1-SNAPSHOT.jar to C:\Users\hp\.m2\repository\Test-Maven\Test-Maven-1\0.0.1-SNAPSHOT\Test-Maven-1-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\hp\.jenkins\workspace\maven_1\pom.xml to C:\Users\hp\.m2\repository\Test-Maven\Test-Maven-1\0.0.1-SNAPSHOT\Test-Maven-1-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.199 s
[INFO] Finished at: 2020-10-20T02:41:27+05:30
[INFO] -----
[INFO] Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\hp\.jenkins\workspace\maven_1\pom.xml to Test-Maven/Test-Maven-1/0.0.1-SNAPSHOT/Test-Maven-1-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving C:\Users\hp\.jenkins\workspace\maven_1\target\Test-Maven-1-0.0.1-SNAPSHOT.jar to Test-Maven/Test-Maven-1/0.0.1-SNAPSHOT/Test-Maven-1-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```