Continuous Integration and Continuous Deployment

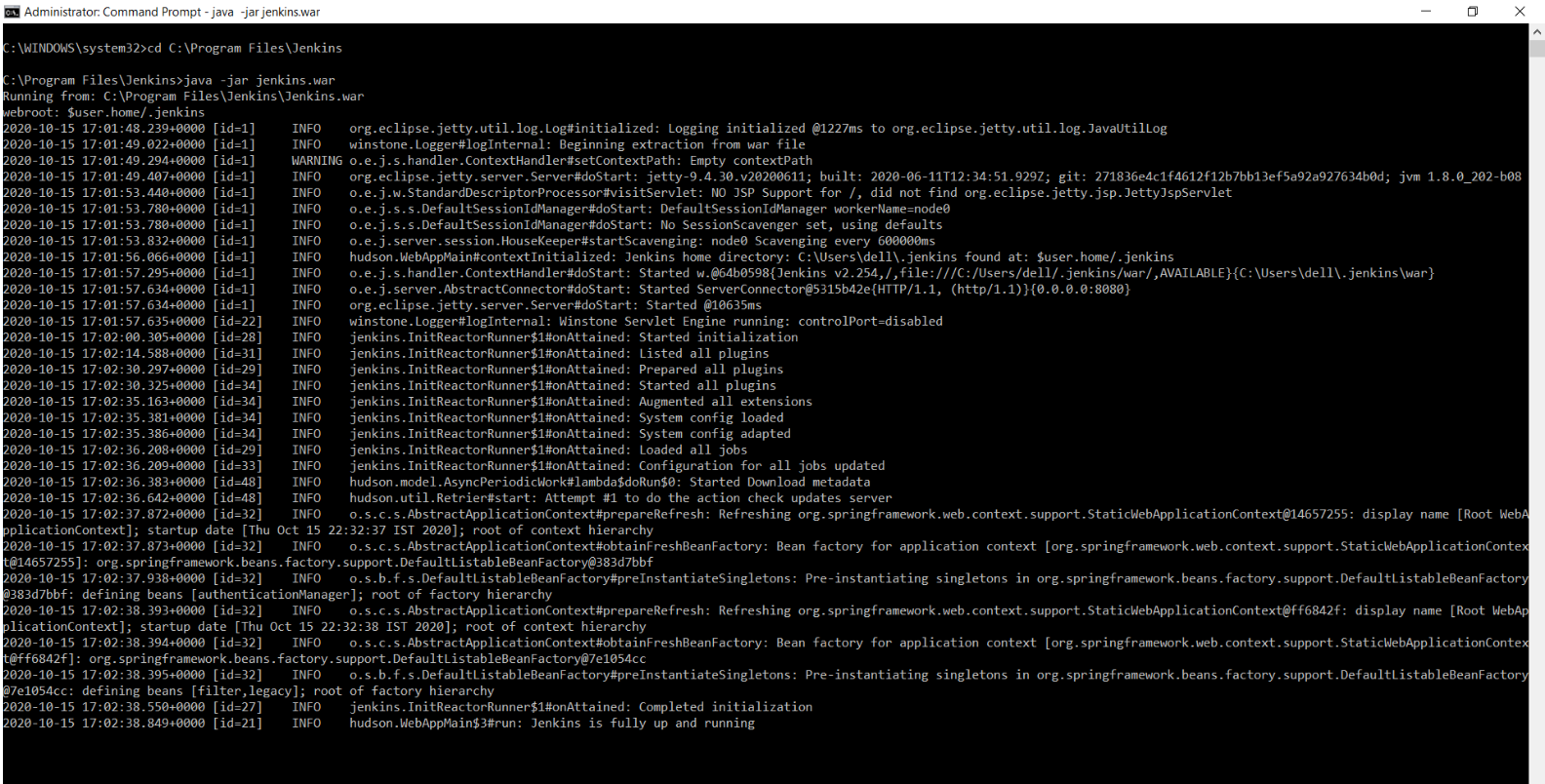
Assignment – 2

**Name – ABHISHEK SHARMA**

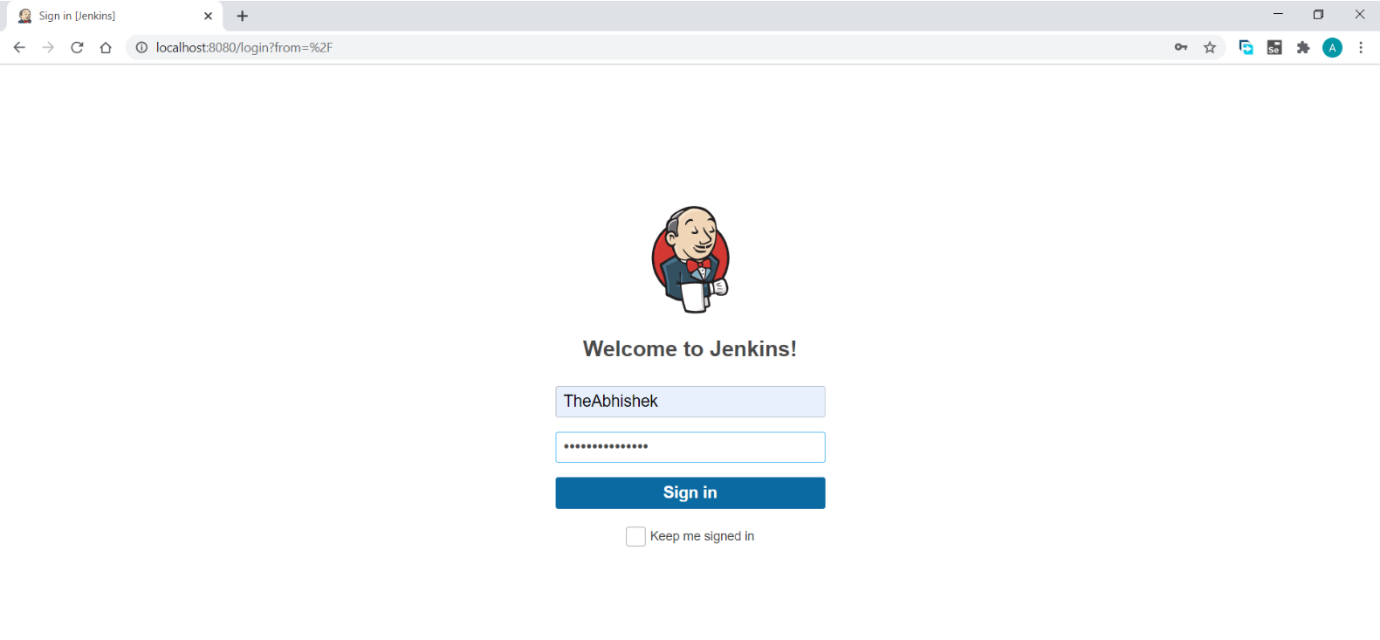
**Roll No – R171218005**

**Integrating Git, Jenkins, Maven and Nexus**

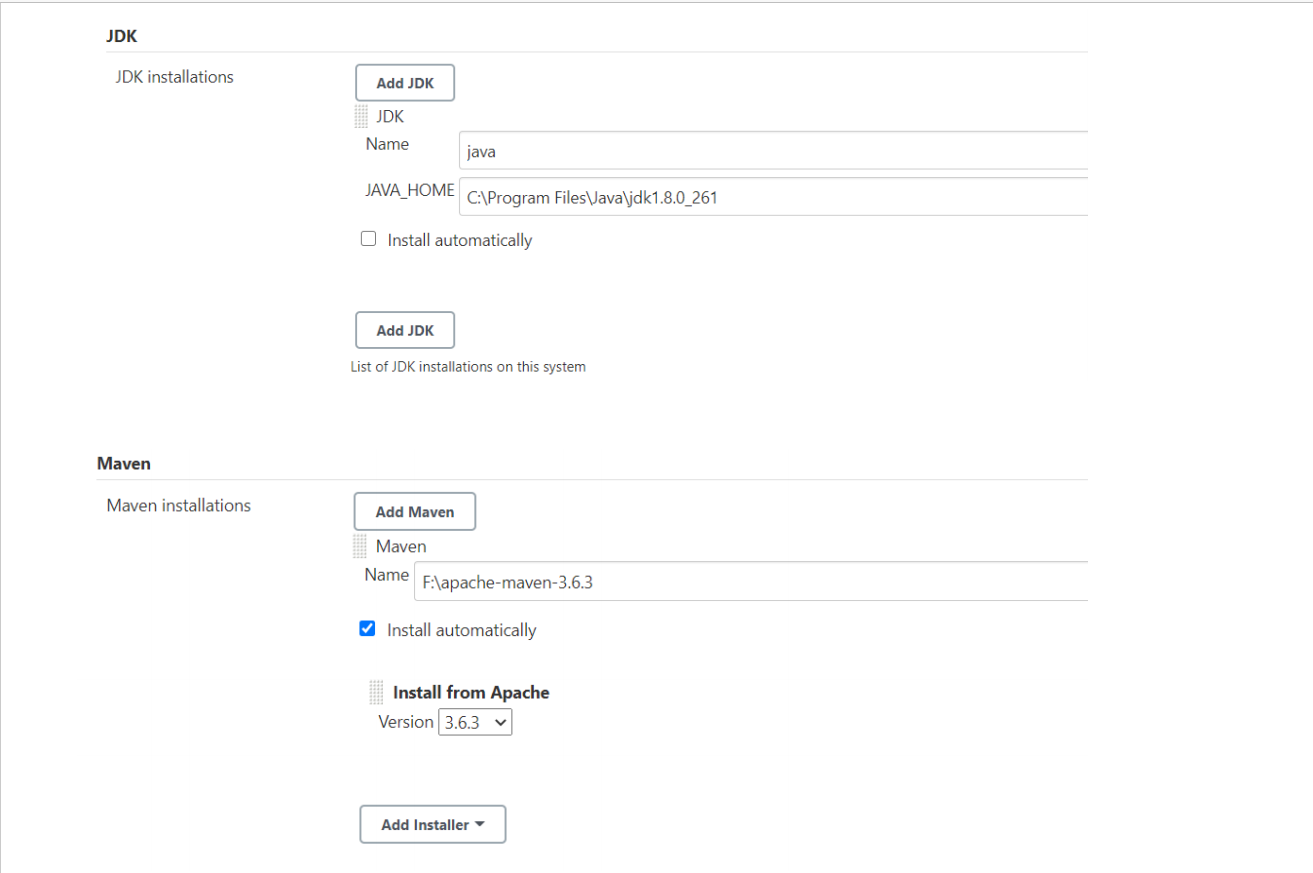
Start the Jenkins service using the java -jar jenkins.war command in the command prompt



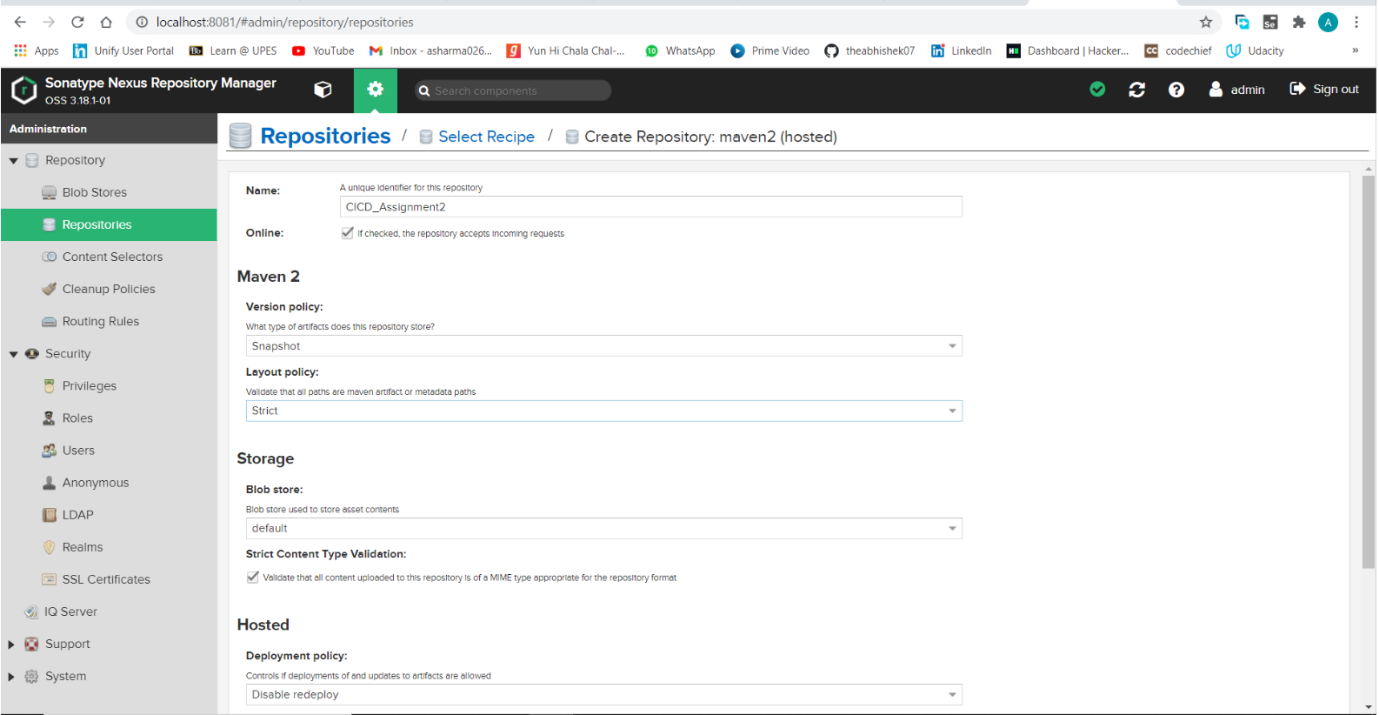
Go to the Jenkins dashboard at localhost:8080



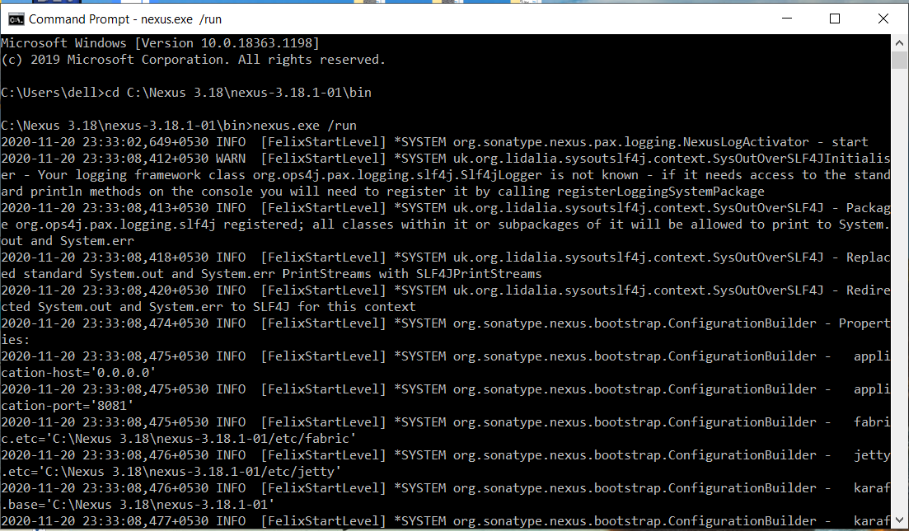
In global tools configuration give path of jdk and maven installation in local machine:



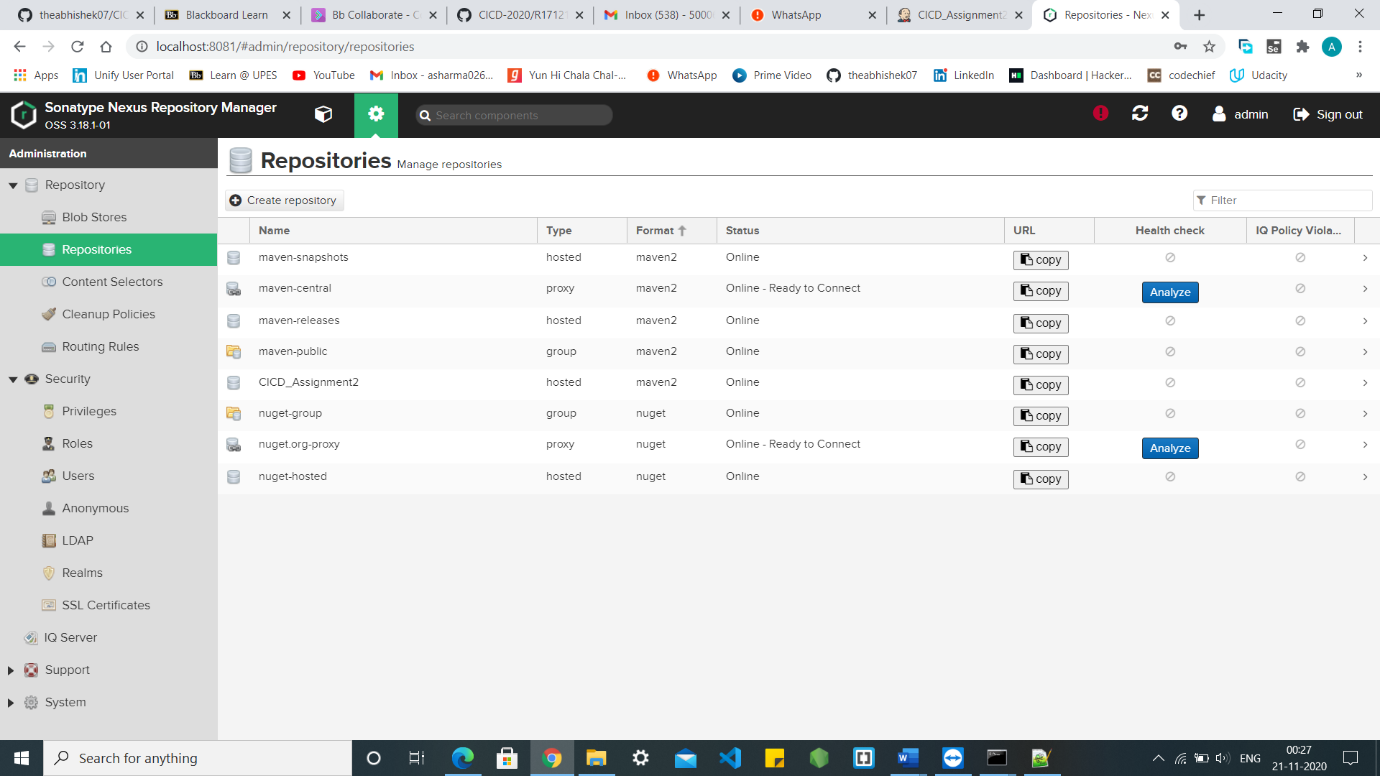
Default port for nexus is 8081:

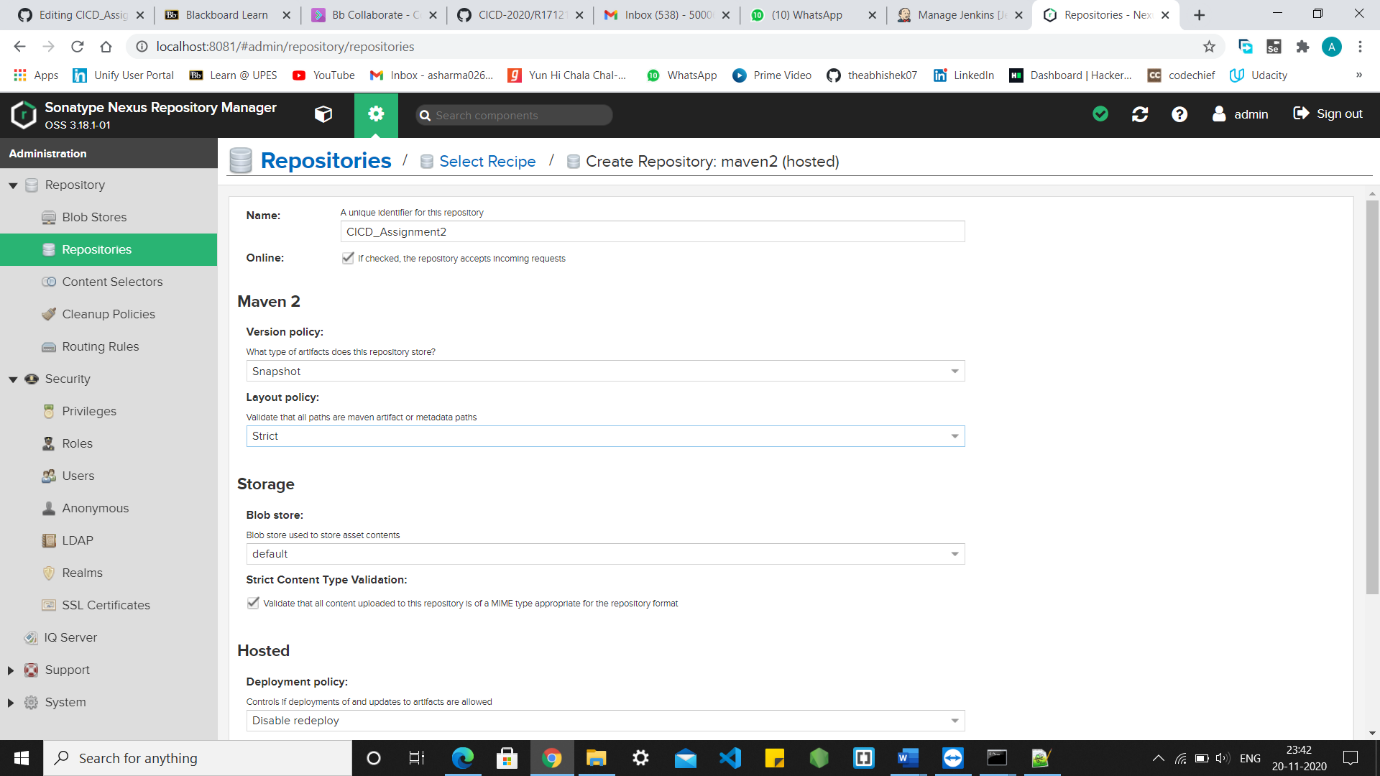


Start nexus, run ‘nexus.exe /run’ command:

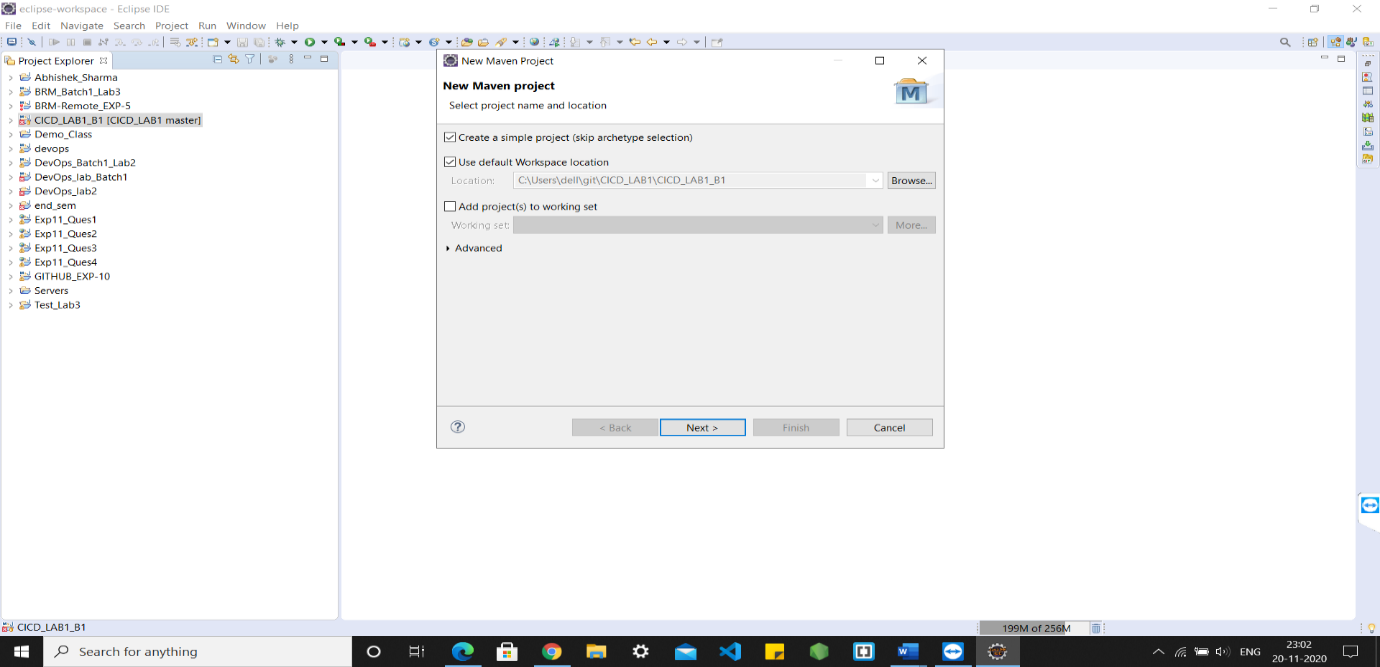


Open nexus on browser (localhost:8081) and create a repository:

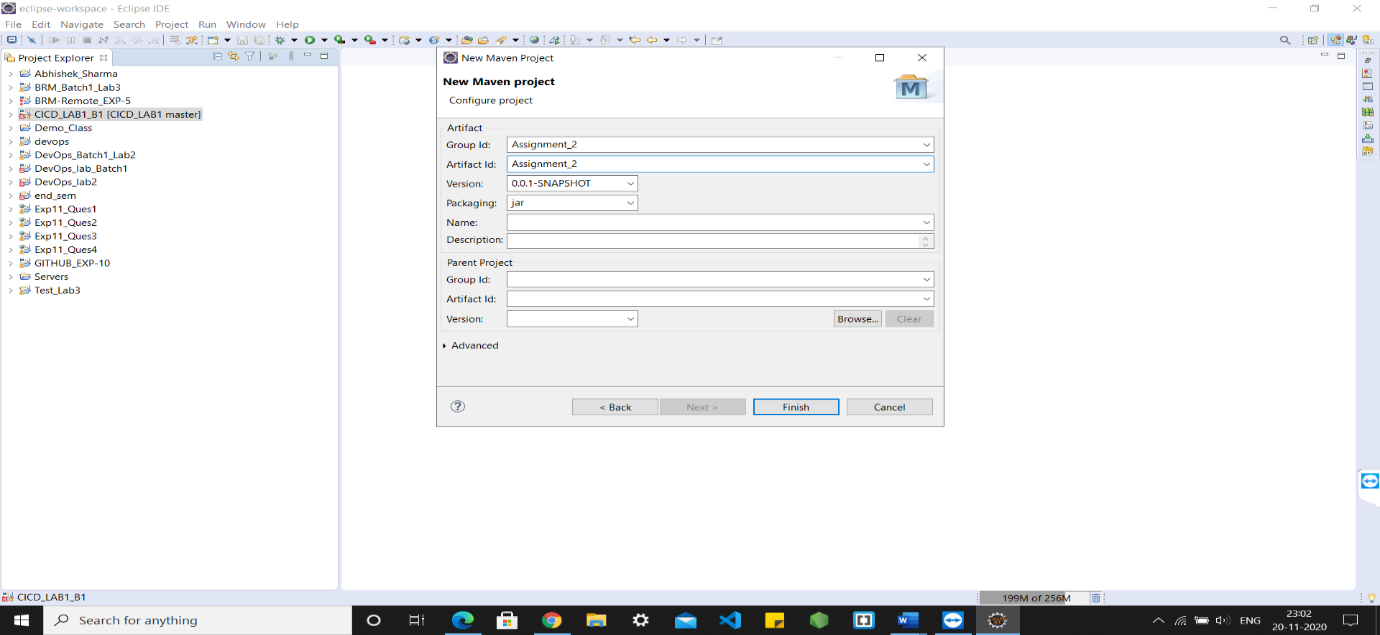




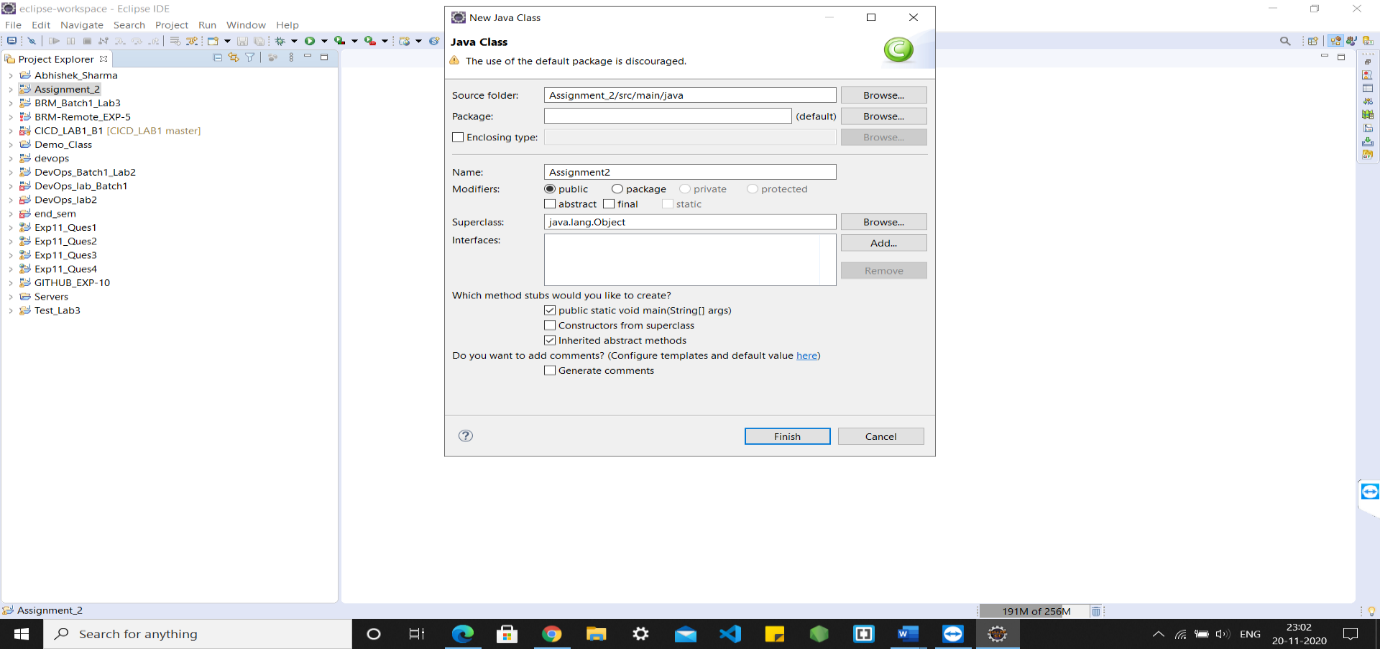
Create maven project:



Naming Group id and Artifact id:



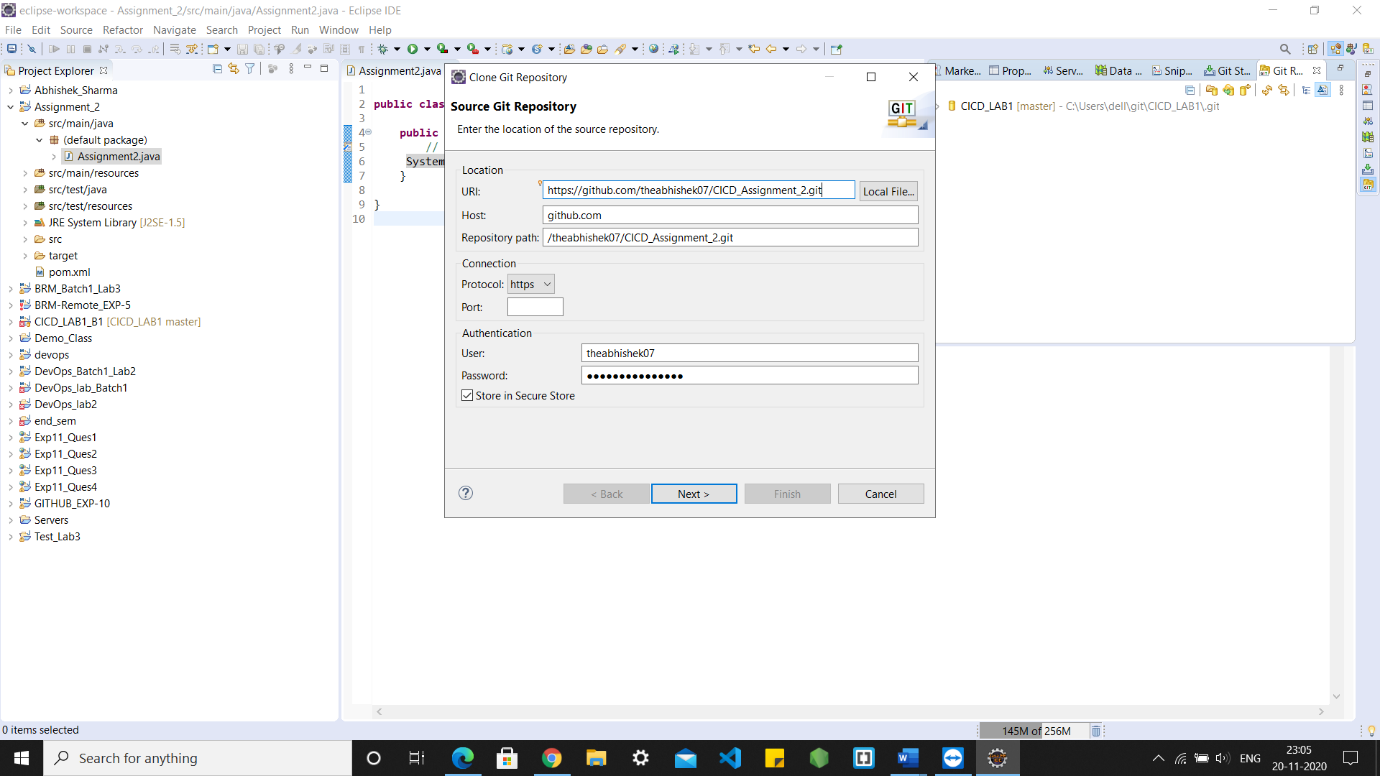
Creating class:



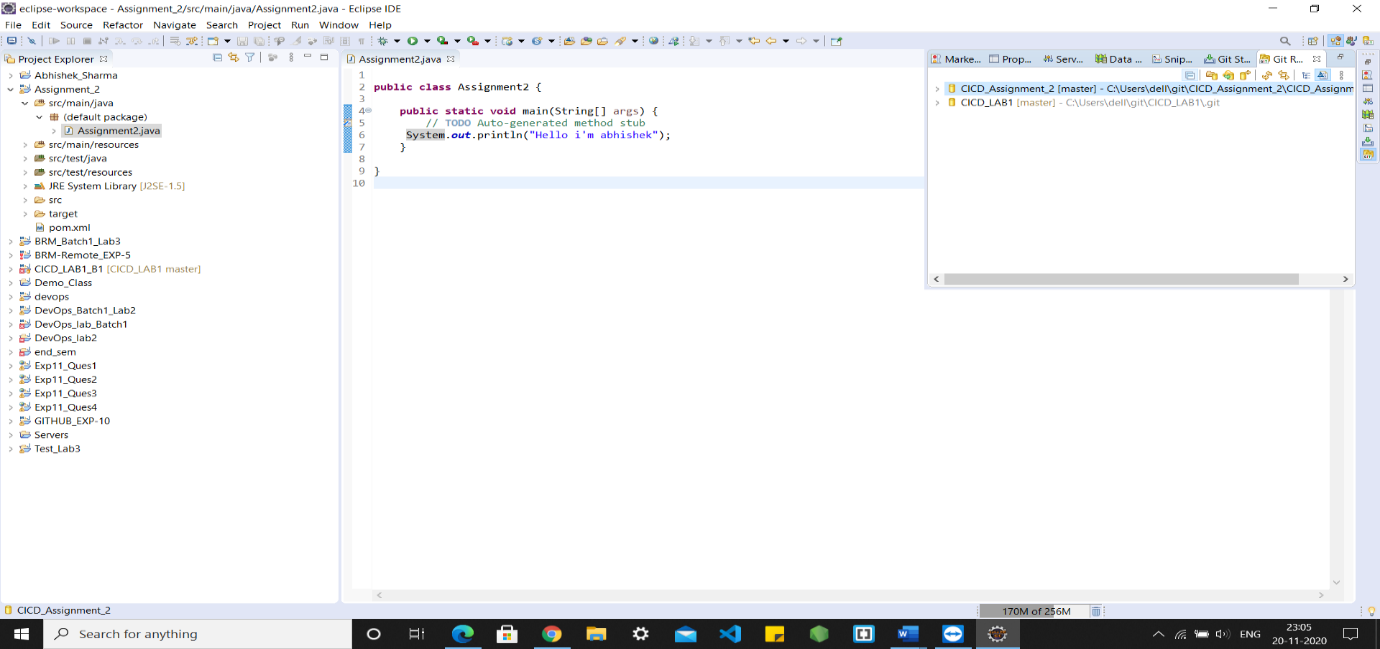
Sample input code:



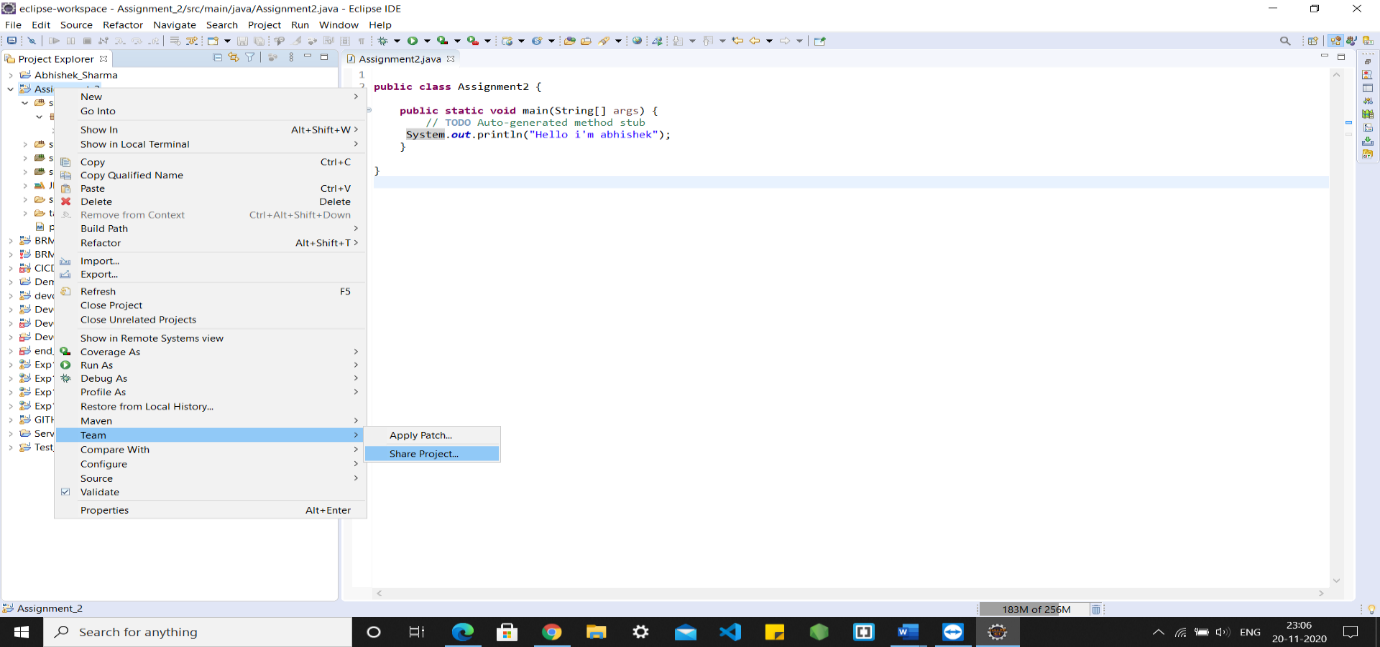
Copying the URL of GitHub repository in maven project:



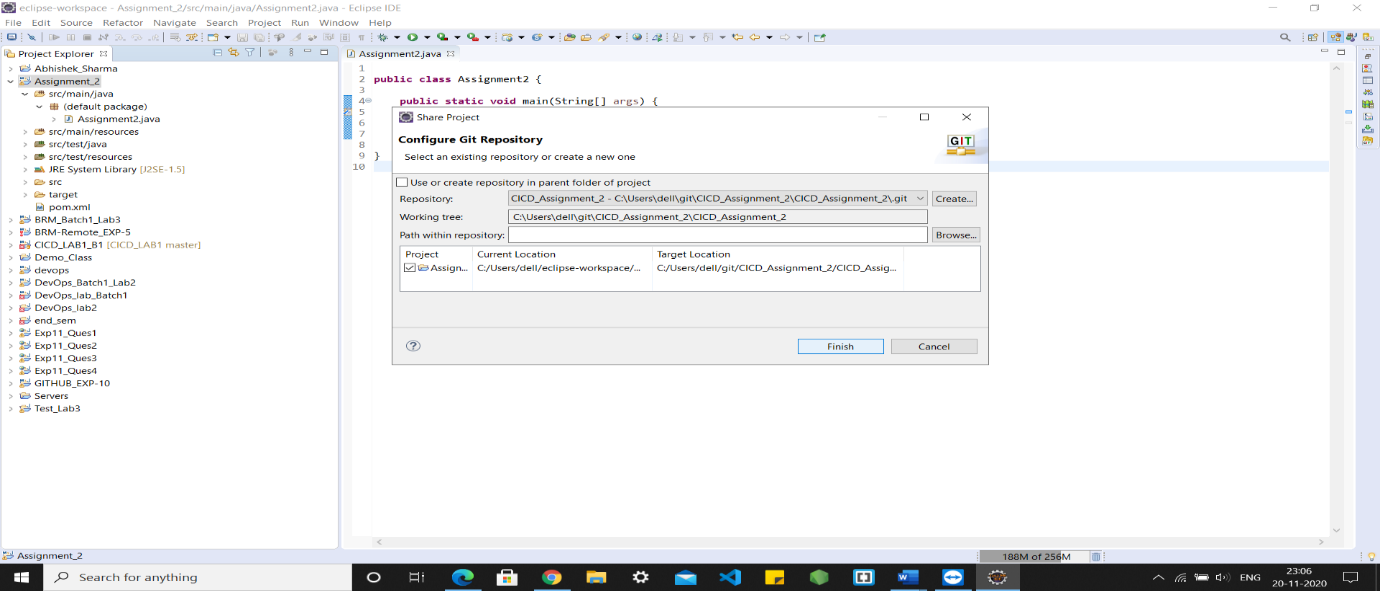
Now the pointer in on master branch on which we are working right now:



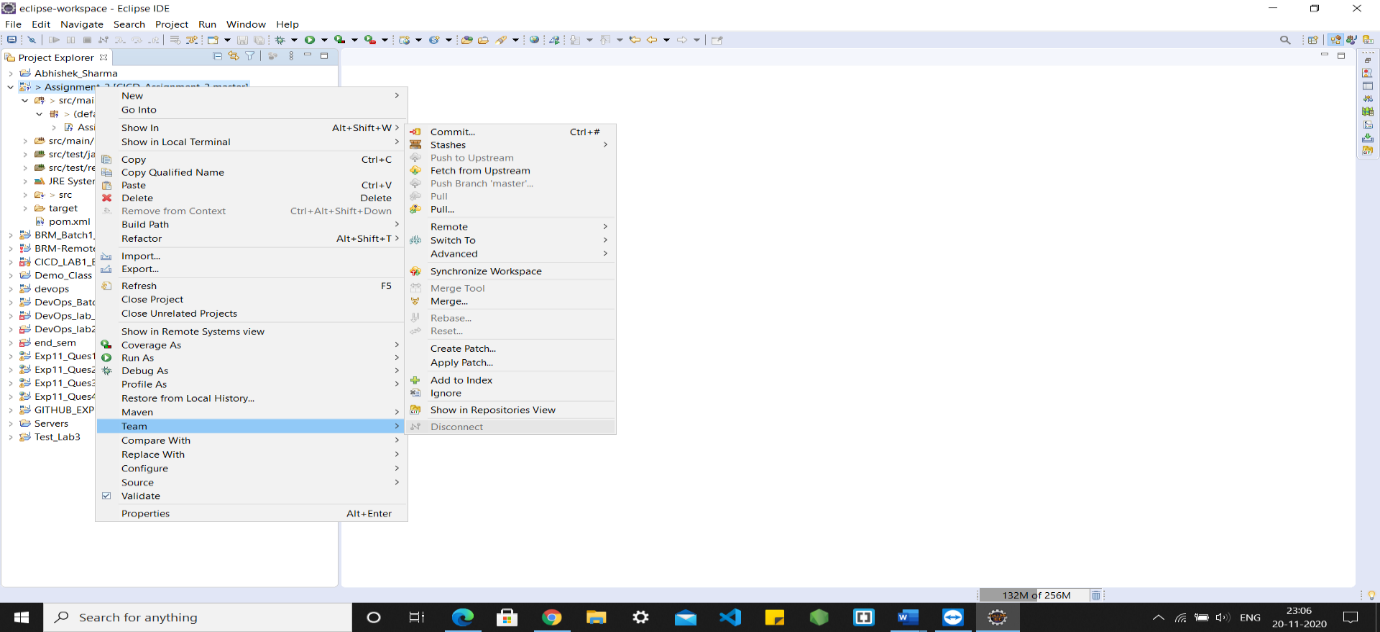
Sharing project on github:

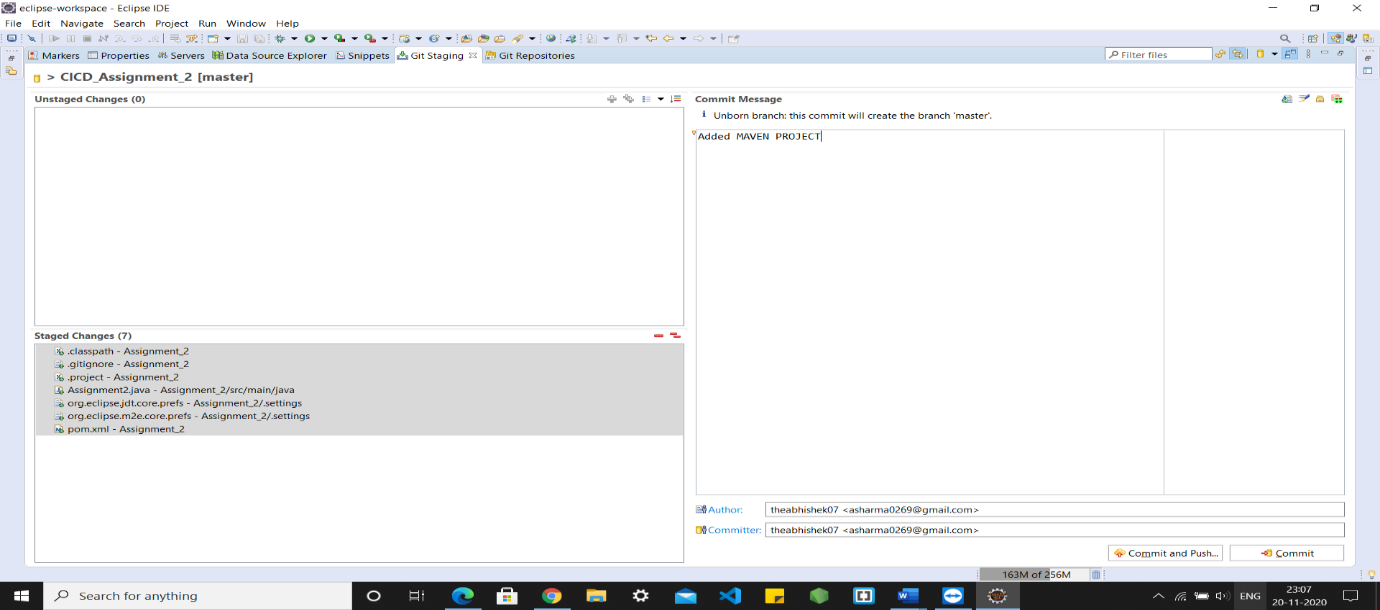


Configuring Git repo:

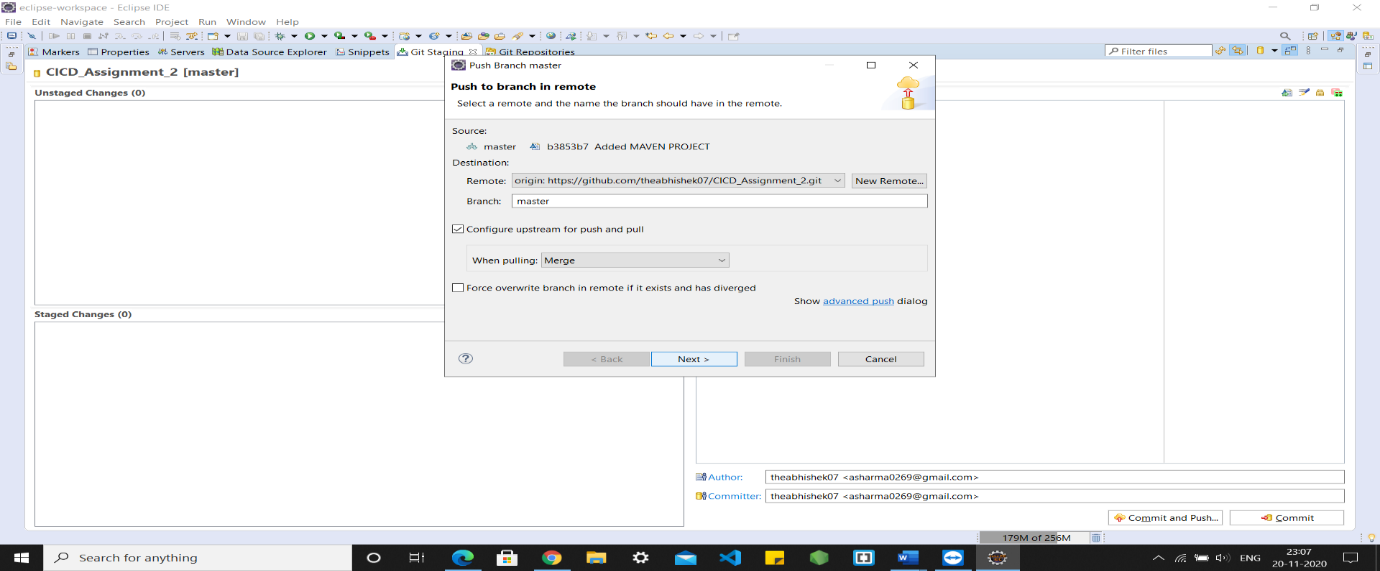


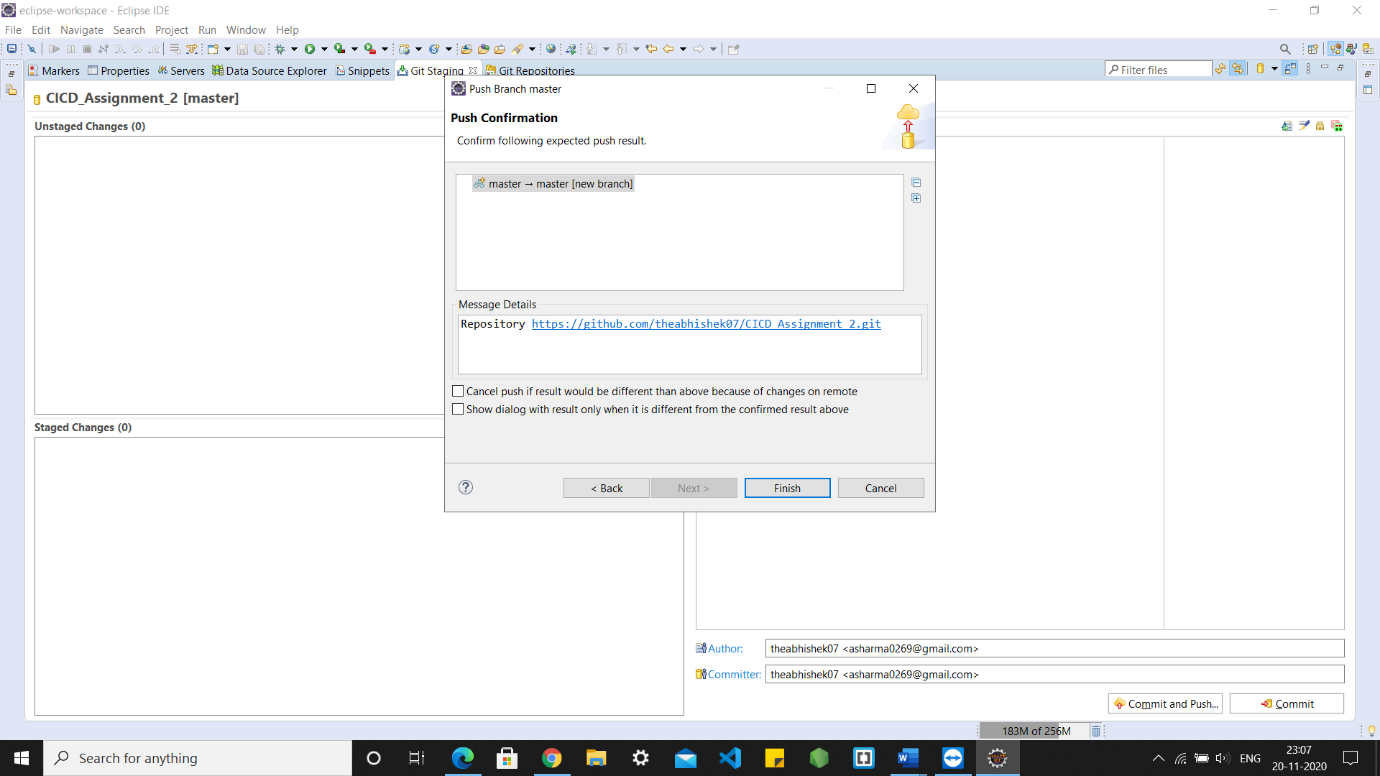
Committing changes:

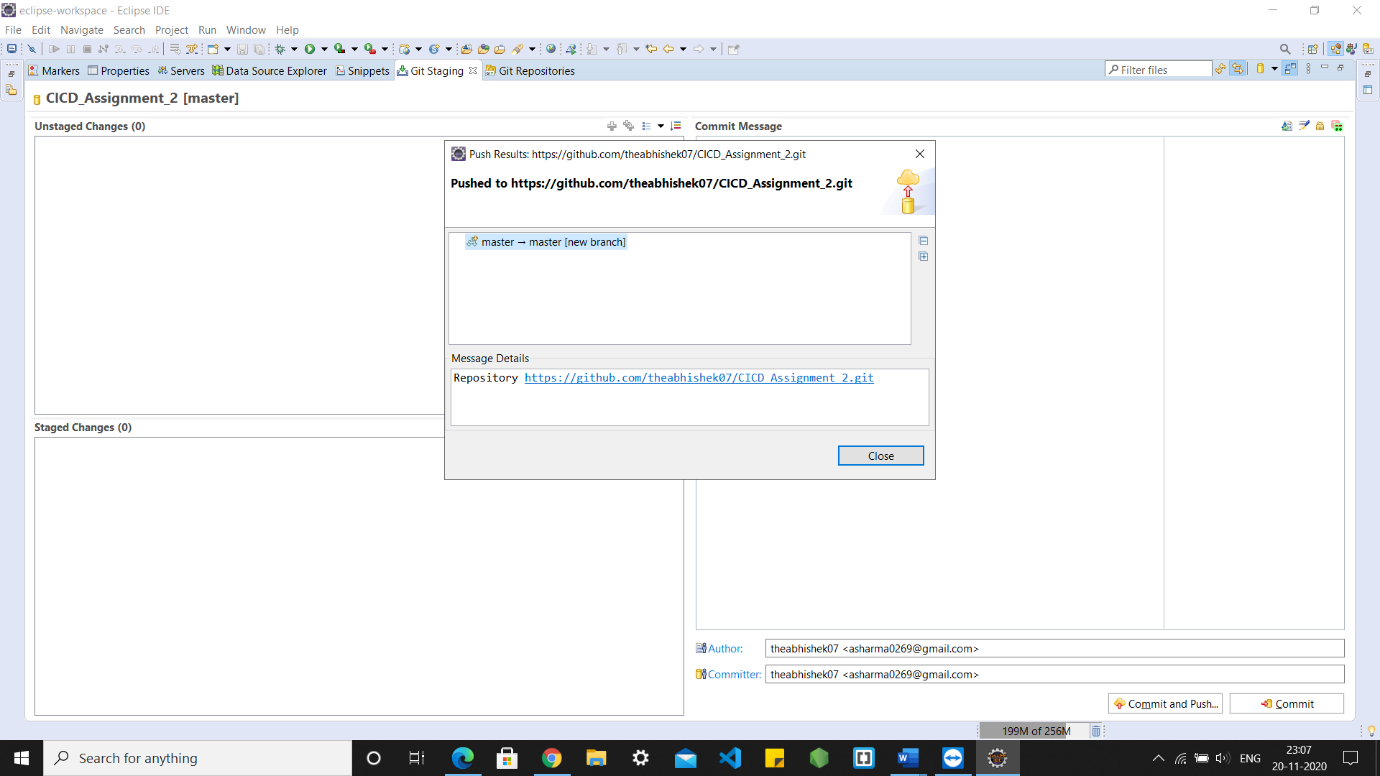




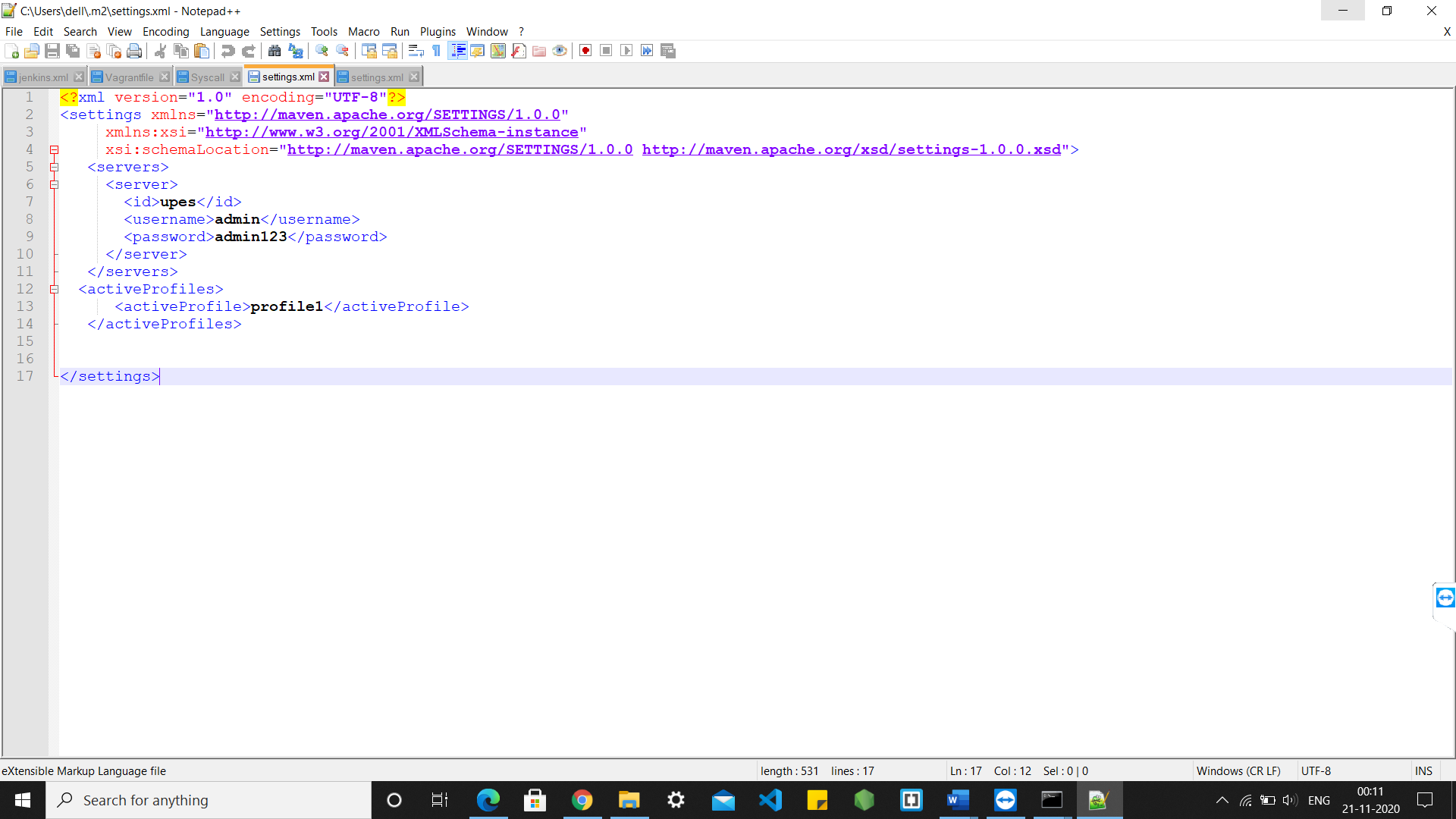
Pushing project on github:



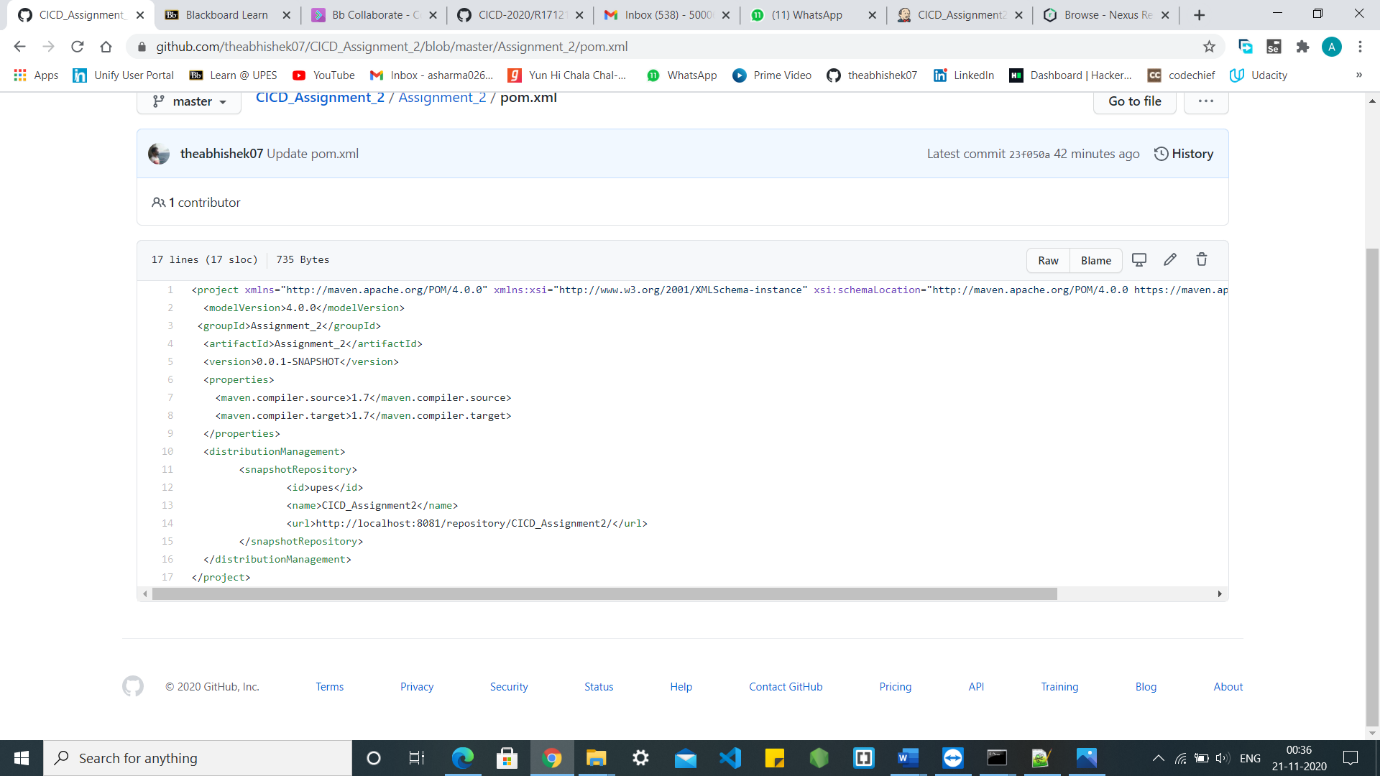




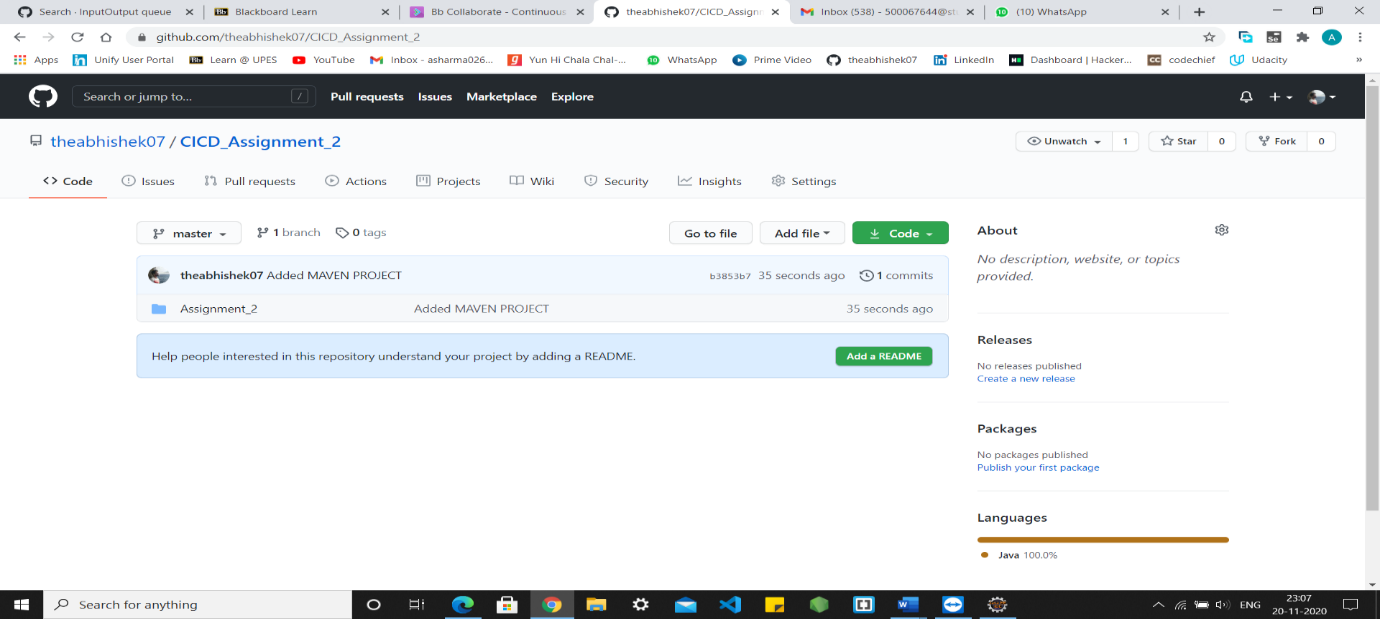
Add server tag in settings.xml file:

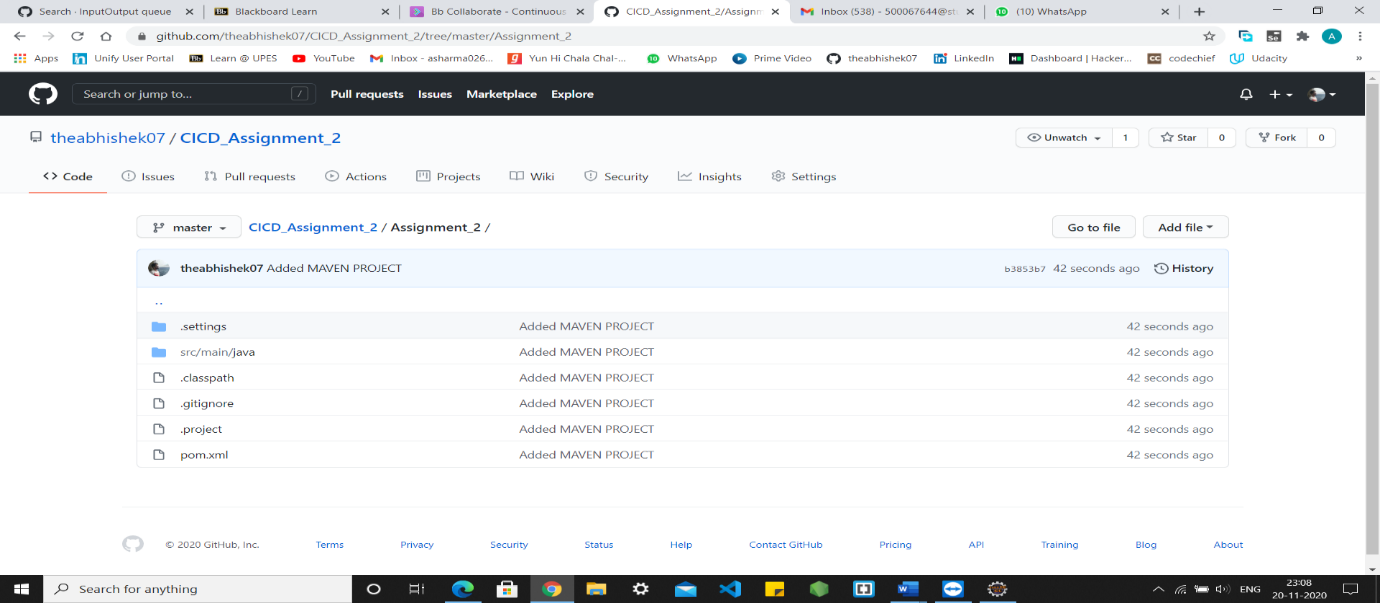


Add distributionManager tag in pom.xml file:

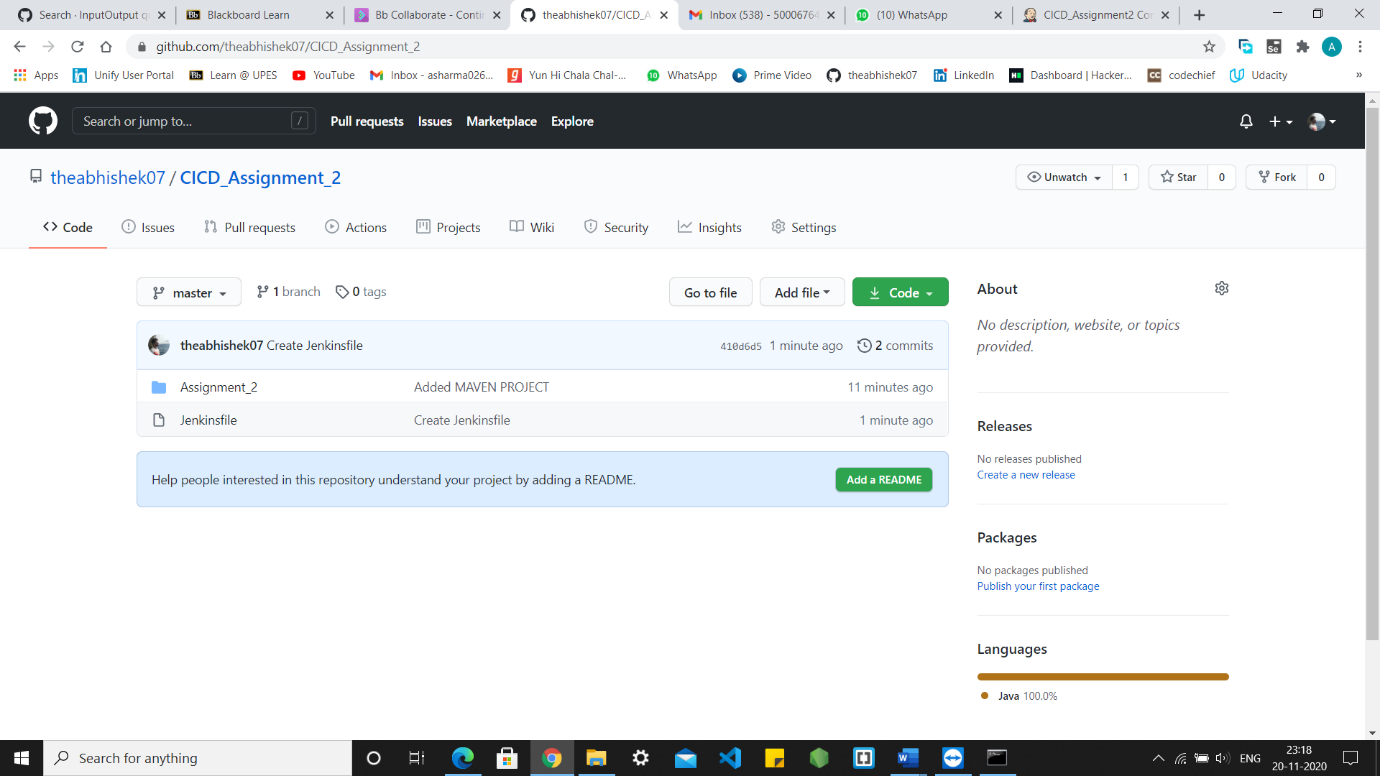


Push the maven project to GithHub:





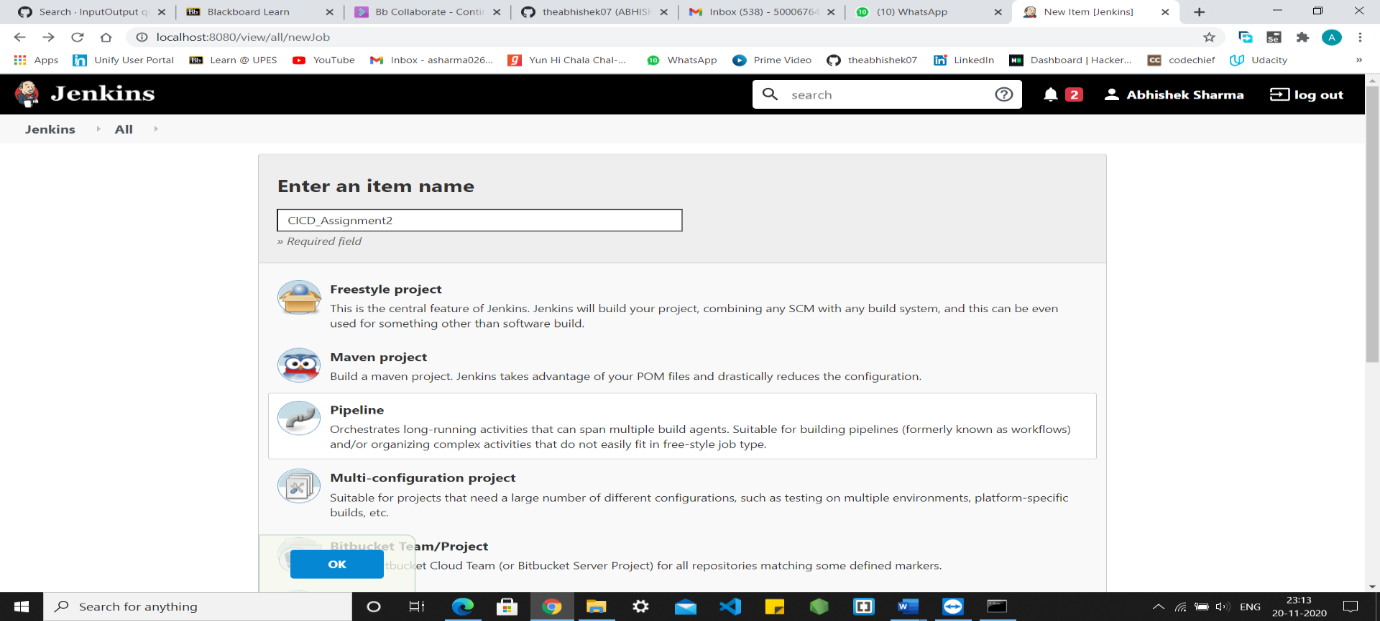
Add Jenkinsfile to the maven project:



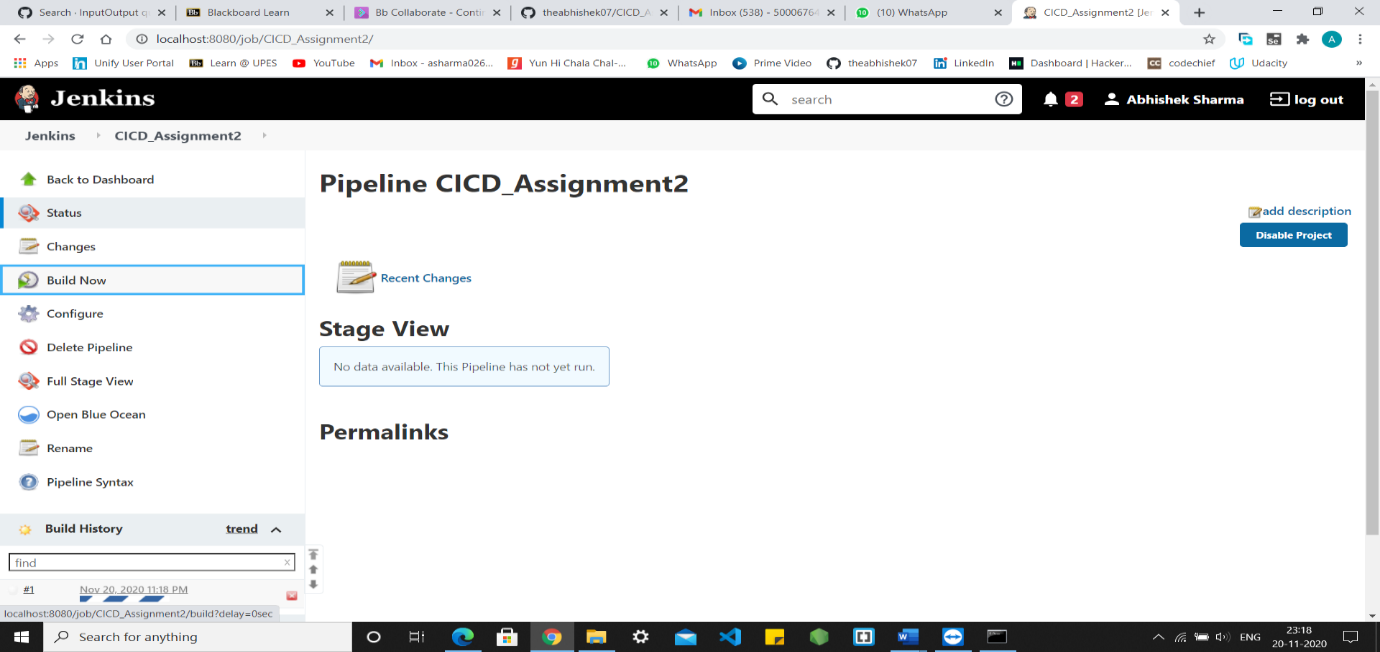


➢ In Jenkins, click on new Item

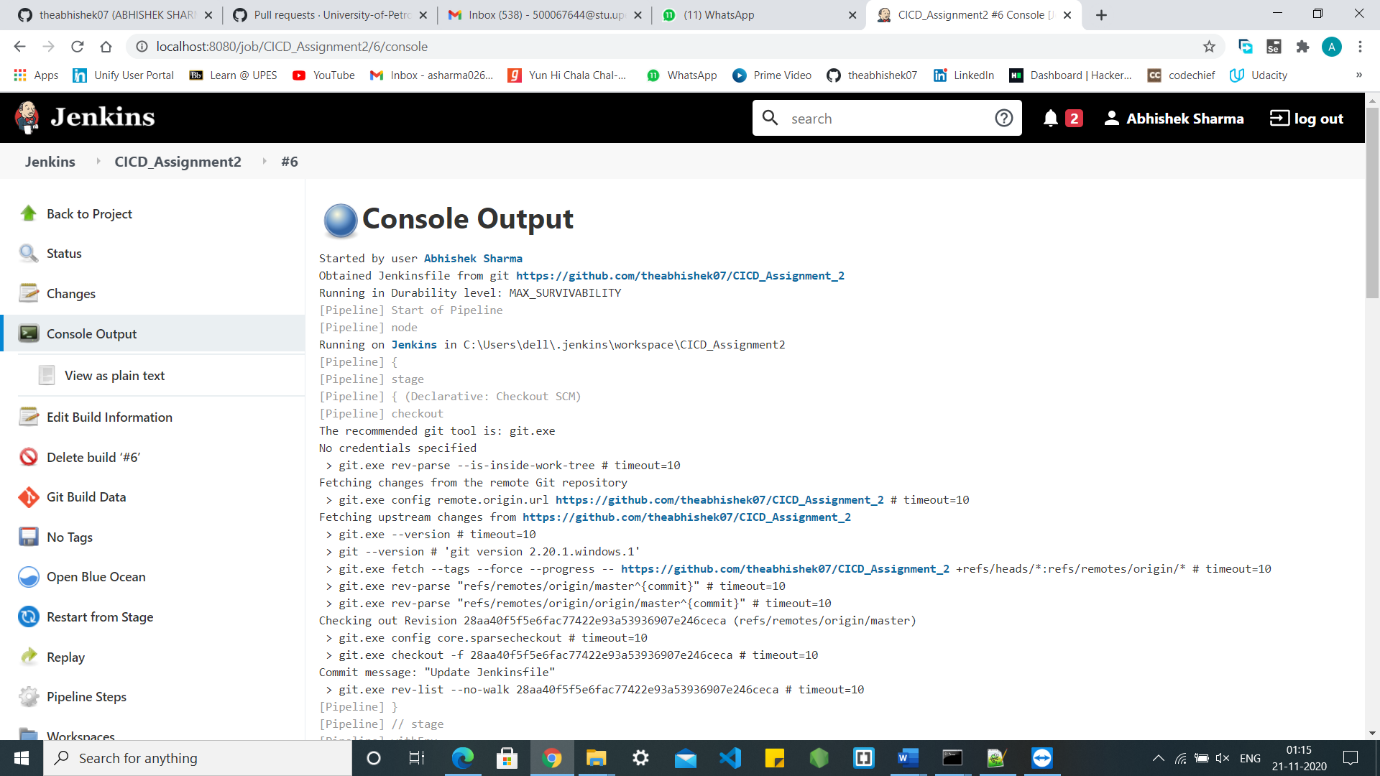
➢ Select pipeline project and give a name to the project

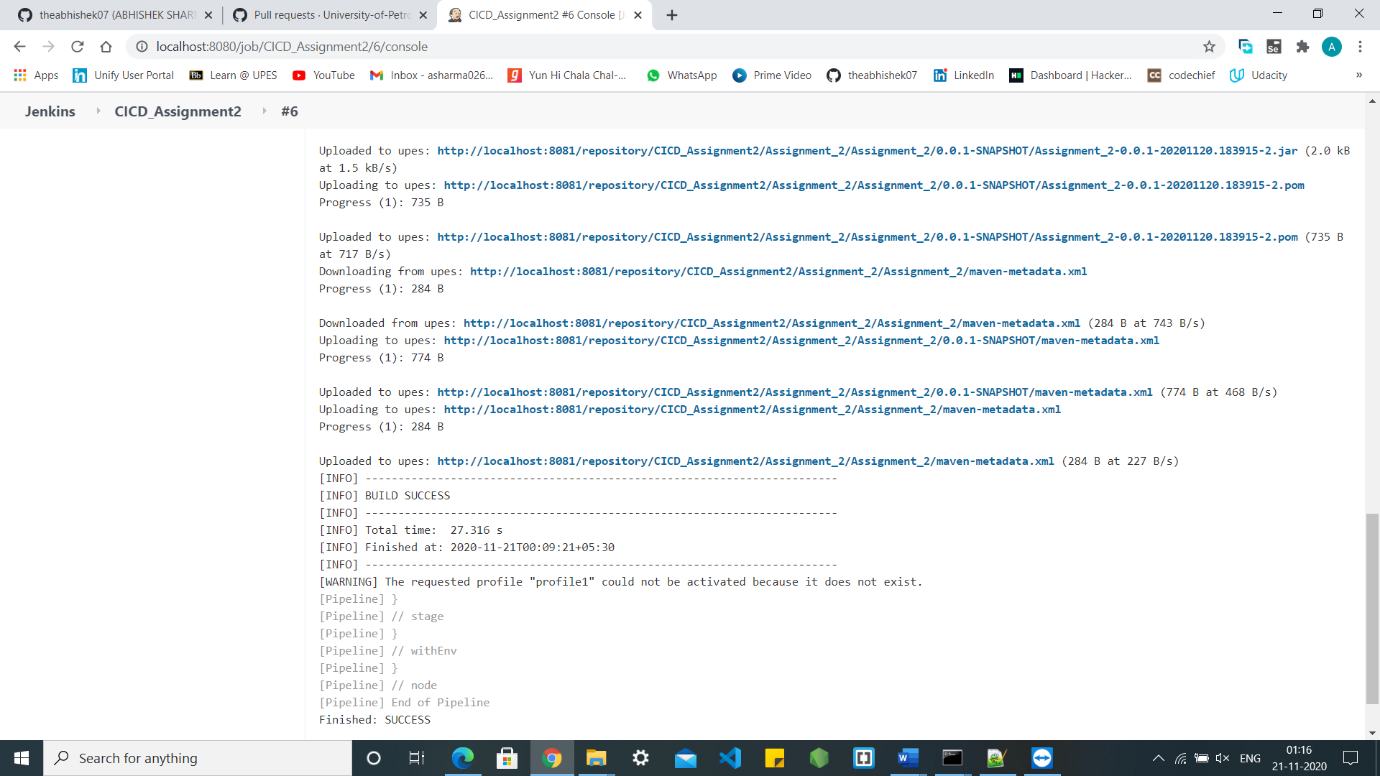


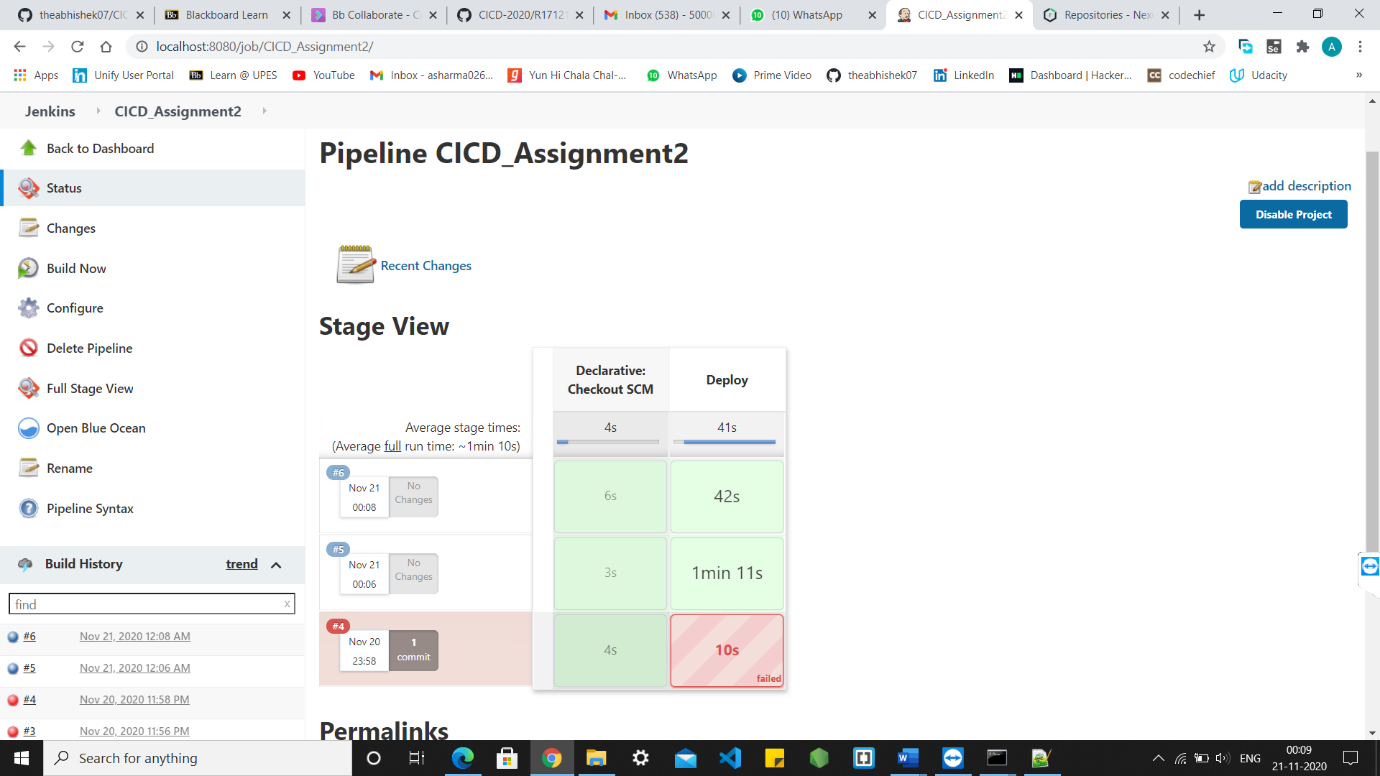
➢ In project pipeline configuration, select SCM, Git and fill the URL of GitHub repository of the maven project

Click on Build Now : 

Console Output:





Pipeline created in Jenkins: 

Build generated and pushed to Nexus Server

