ASSIGNMENT 2

Perform following steps using Git, Jenkins, Maven, and Nexus and create a pdf file including step by step screenshots.

Step 1: Create a Maven project using Eclipse.

Step2: Push the same running project on GitHub using Eclipse or IDE.

Step 3: Create a Jenkins Pipeline to generate build and push the generated build on Nexus

Server using Jenkinsfile in GitHub.

Step 4: Take screenshots of all steps performed in different tools.

Step 5: Create a PDF file using all screenshots. A small description need to be added with each

screenshot.

Step 6: PDF filename name should be your complete roll no.

Step 7: Push your pdf file in this GitHub Repo in your respective folder.

https://github.com/University-of-Petroleum-Energy-Studies/CICD-2020.git

In this assignment, we will see how to integrate Jenkins with Maven, Nexus and GitHub.

Make sure your Jenkins is up and running.

```
C:\Windows\System32\cmd.exe-java-jarjenkins.war

Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

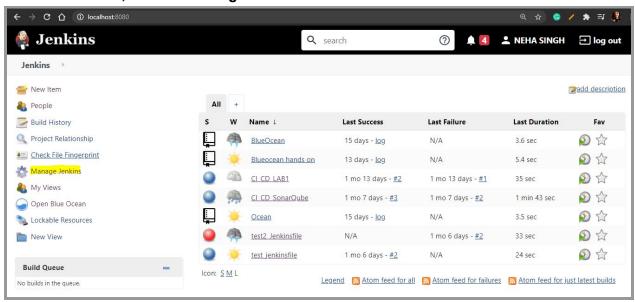
C:\Users\Neha\Downloads>java-jar jenkins.war

Running from: C:\Users\Neha\Downloads\jenkins.war

webroot: $user.home/.jenkins
2020-10-08 14:11:54.804+0000 [id=1] INFO org.eclipse.
2020-10-08 14:11:55.382+0000 [id=1] INFO winstone.Log
2020-10-08 14:11:55.580+0000 [id=1] WARNING o.e.j.s.hand
```

Open jenkins in web browser, I will be using Chrome "Localhost:8080"

On left-hand side, move to manage Jenkins.

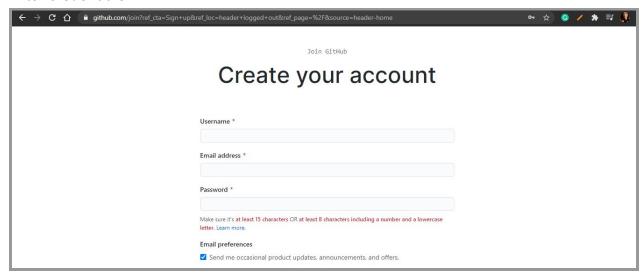




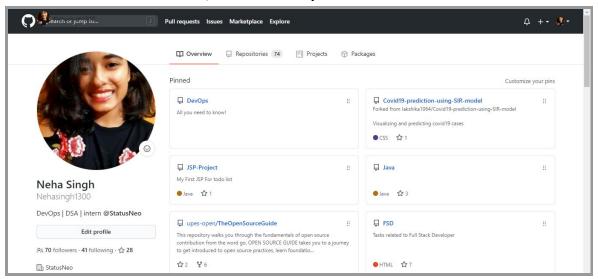
Now, you can install Maven, Github Plugins



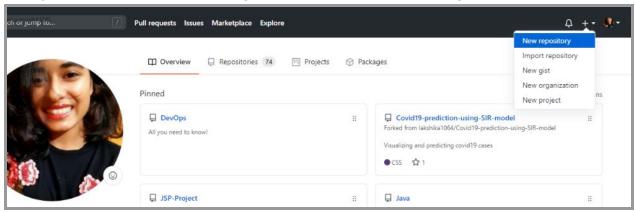
Enter credentials



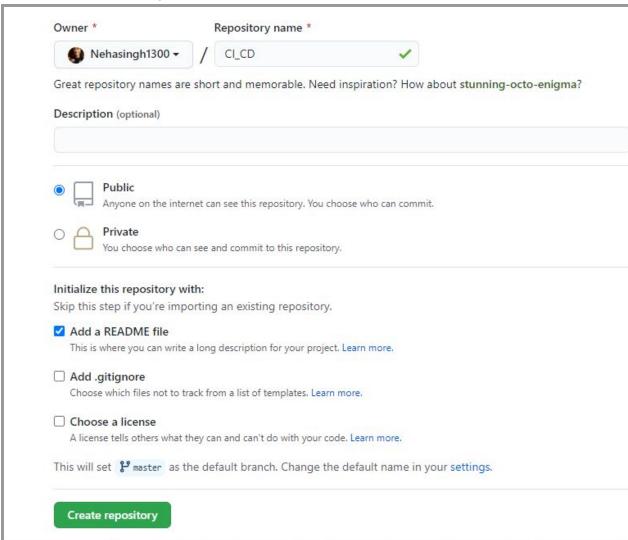
You will see account like this, but without repositories.



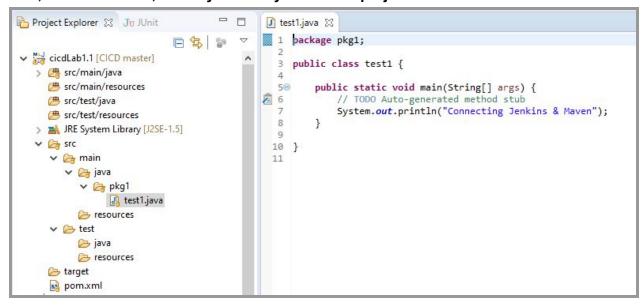
Now, you can move to the upper right-hand side and click on + sign to make new repo.



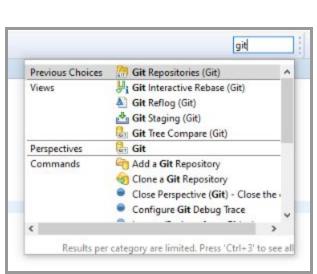
You can enter any name for your repository, and description if you want. Then, go and click Create Repositiory

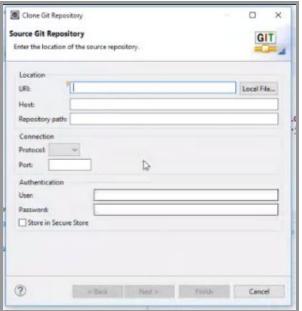


Now, move to Maven, where you have your maven project.

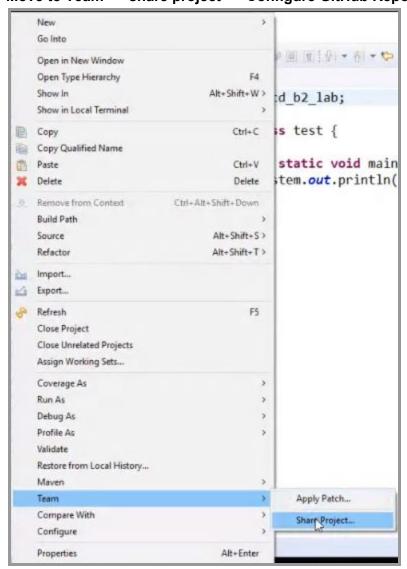


On the upper right-hand side search for git. Click on it. Then click on the clone repository icon. Enter the details and URL of your repository.





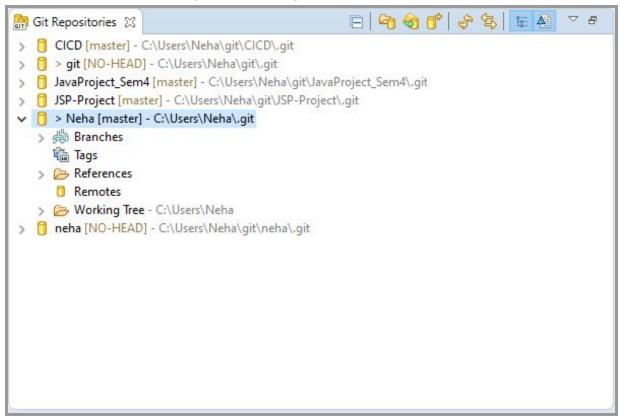
Go to your project and right-click on it. Move to Team >> share project >> Configure GitHub Repository >> enter credentials



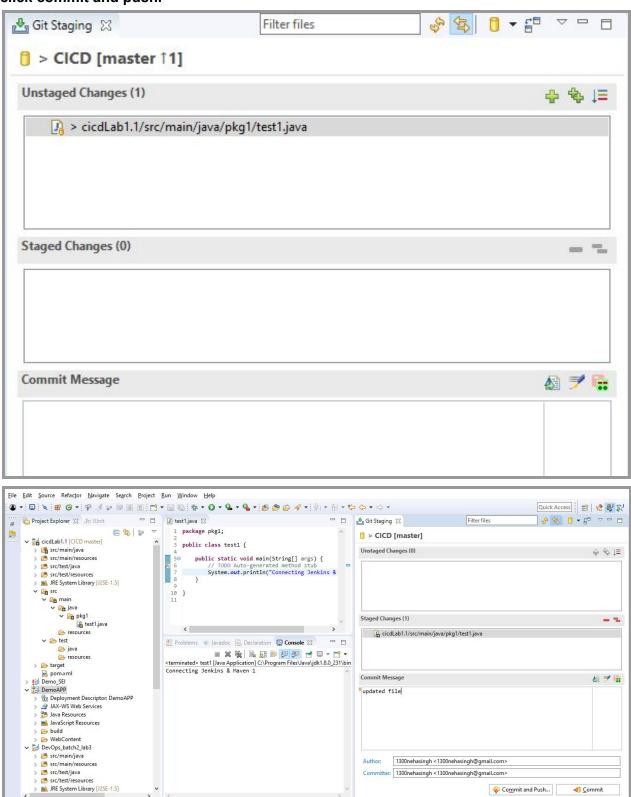
Configure Git Repository



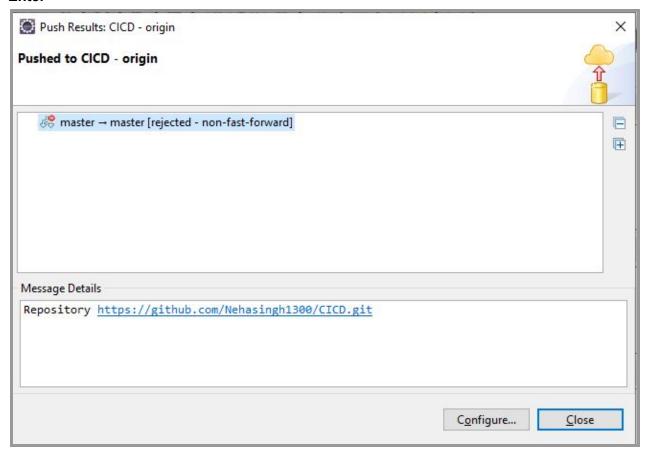
You will be able to see that your repository is connected with GitHub.



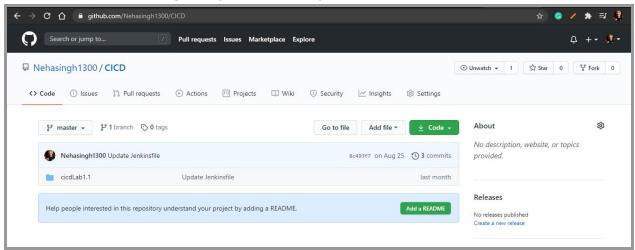
Now, drag all the changes from unstaged to staged. Enter the Commit message then click commit and push.



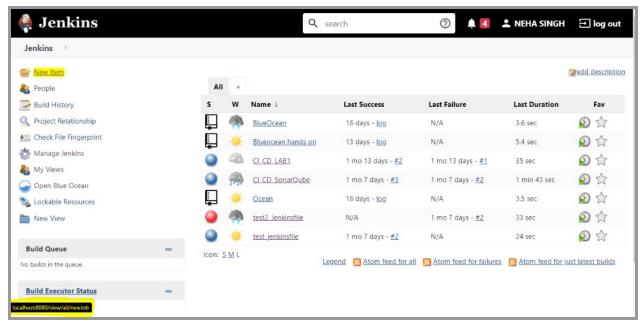
Enter



You can see all the changes in your repository.



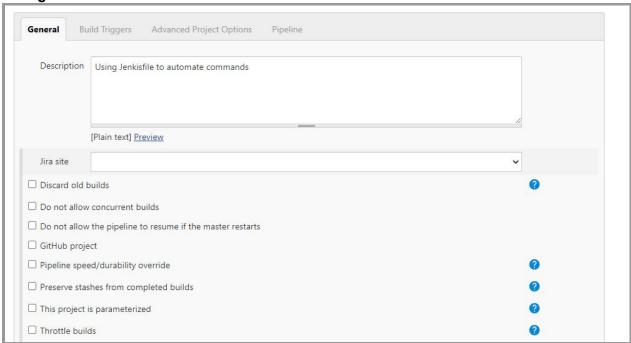
Move to new items

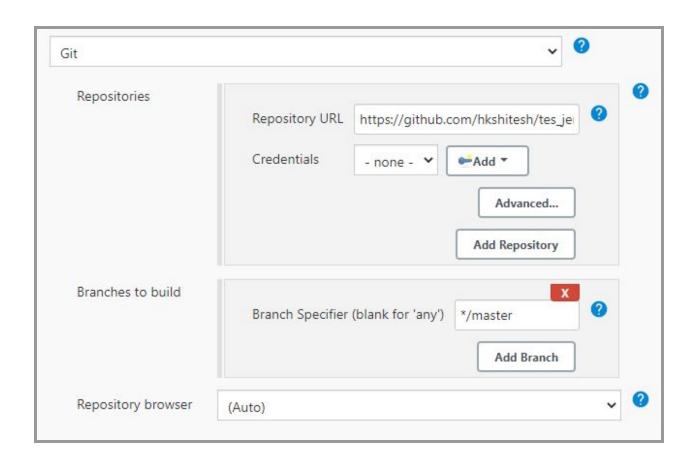


Select Pipeline and enter the name of the project. Jenkinsfile Code

```
pipeline{
  agent any
  stages{
   stage('Build'){ // Stage 1
     steps{
      echo 'Build Stage'
     }
                    // Stage 2
   stage('Test'){
     steps{
      echo 'Test Stage'
     }
   stage('Clean'){
                      // Stage 2
     steps{
      echo 'Clean Stage'
     }
```

Configuration



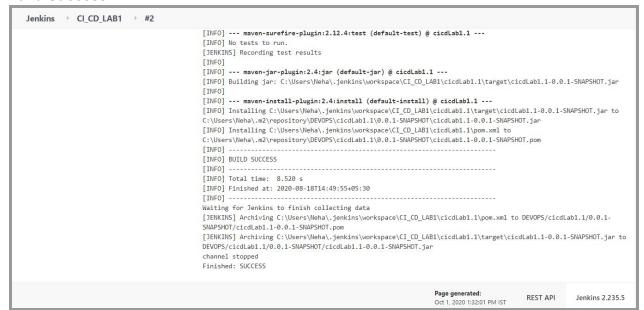




Build Now

You can move to console and check if you get success

Build Success



You can see all the related files.

