

Assignment 2 (Perform following steps using Git, Jenkins, Maven and Nexus and create a pdf file including step by step screenshots.)

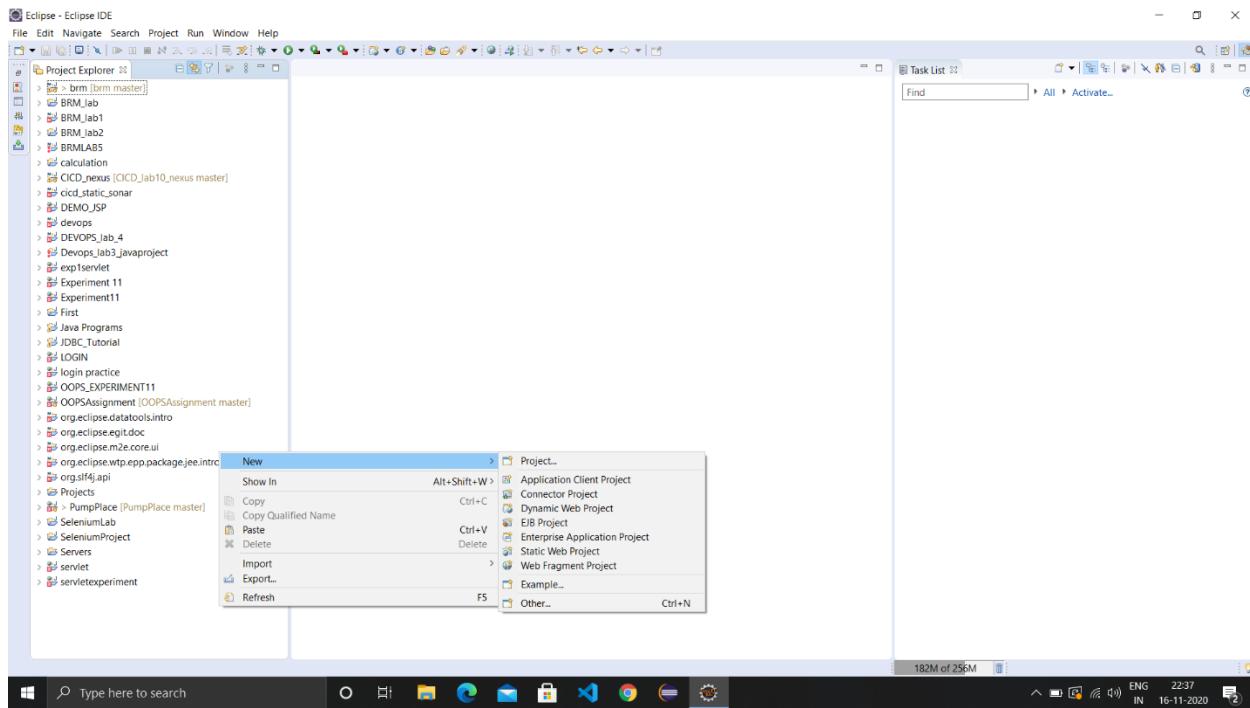
Name: Maulik Chhabra

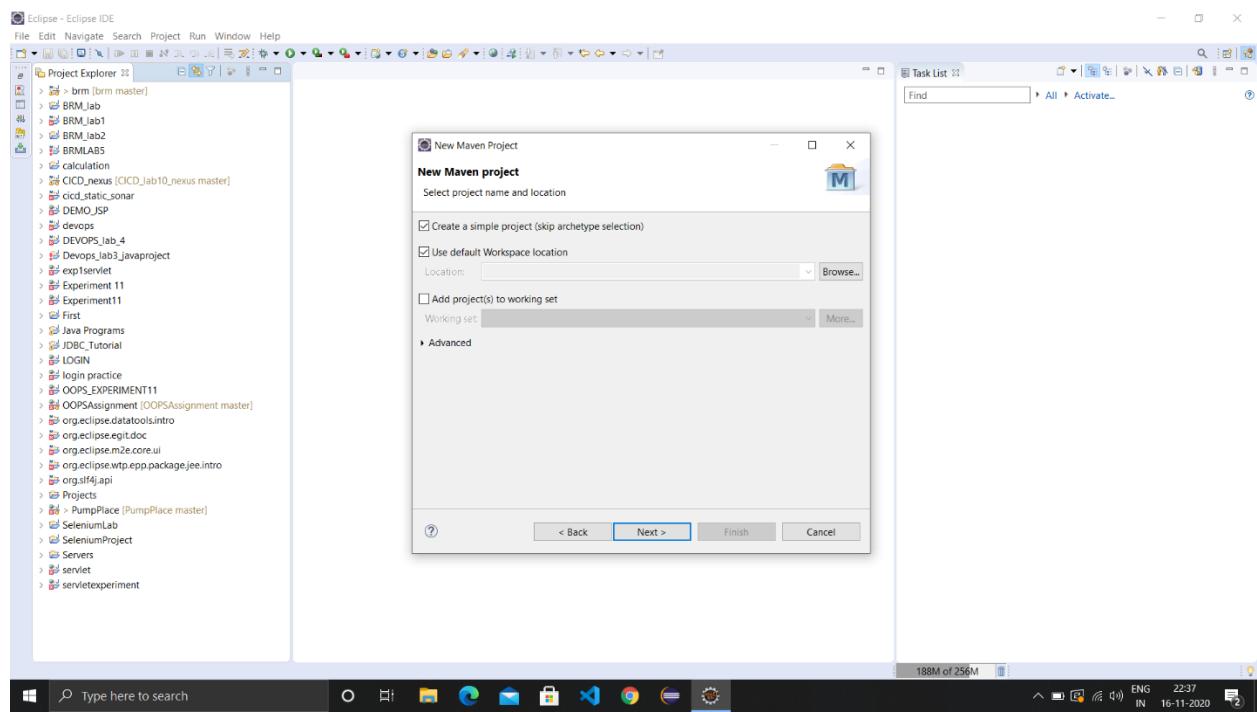
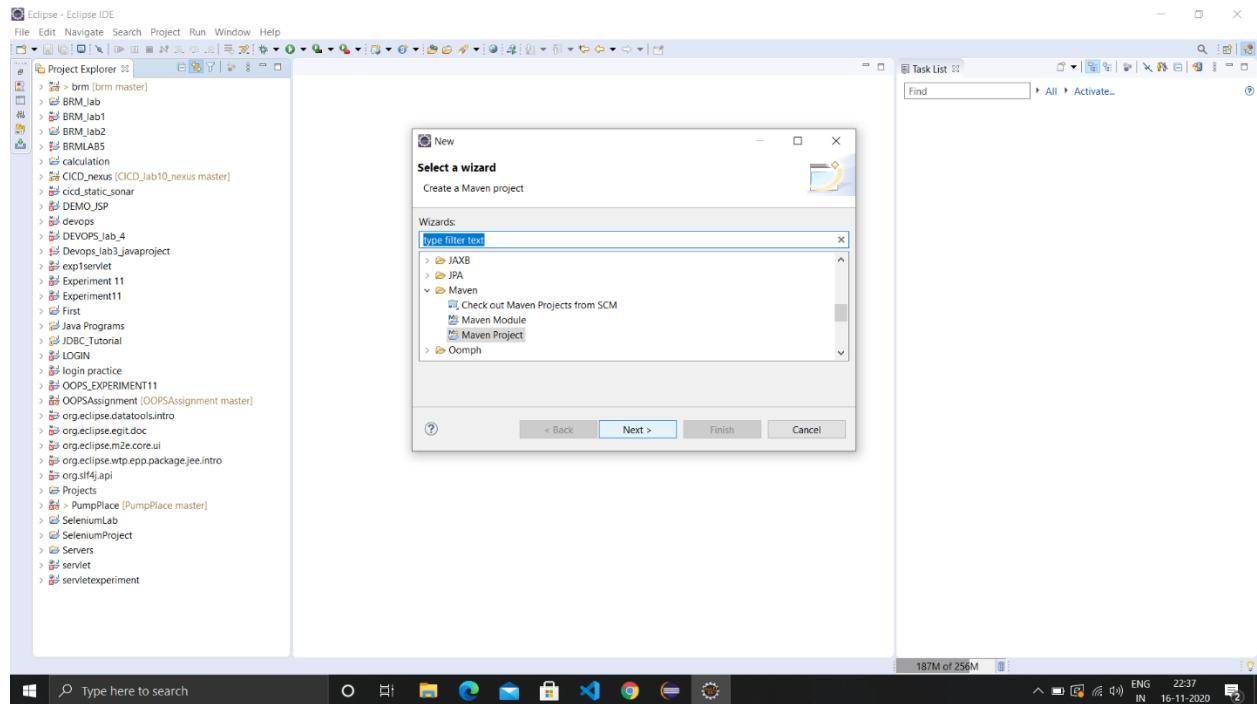
Sap ID: 500067458

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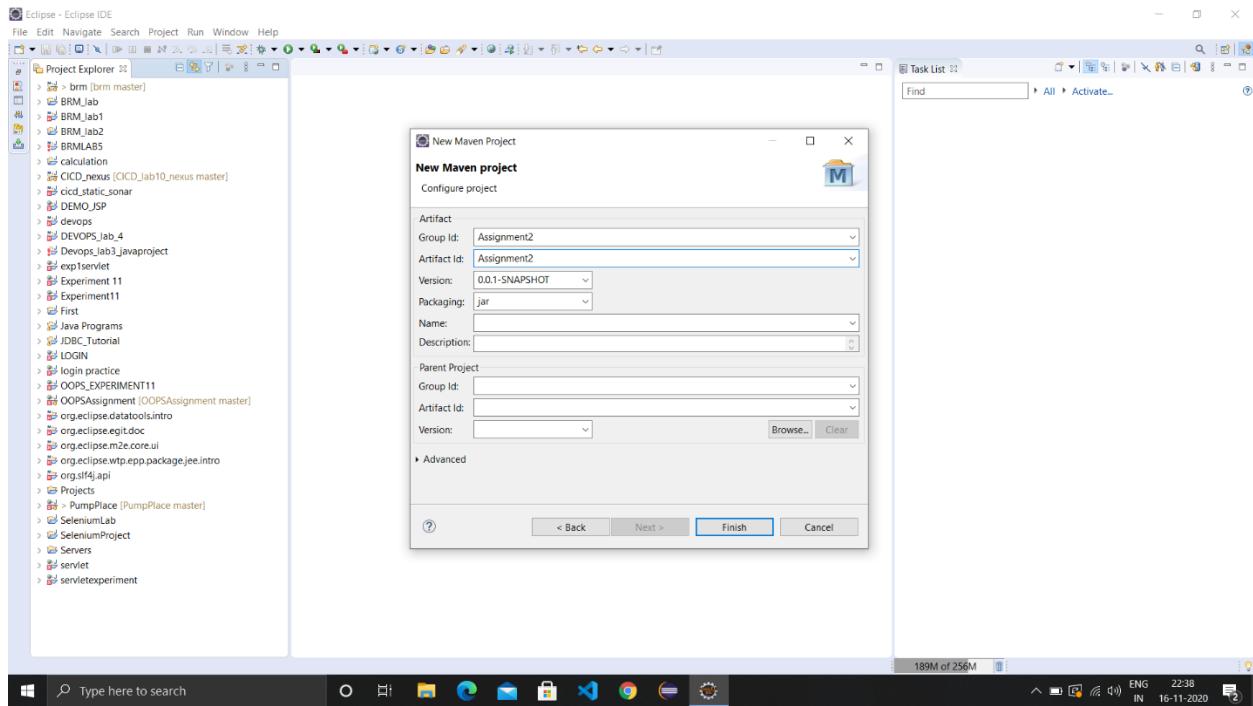
CICD Assignment 2

1. Open Eclipse IDE and create a new maven project by choosing maven project option and filling the general configuration of the project.

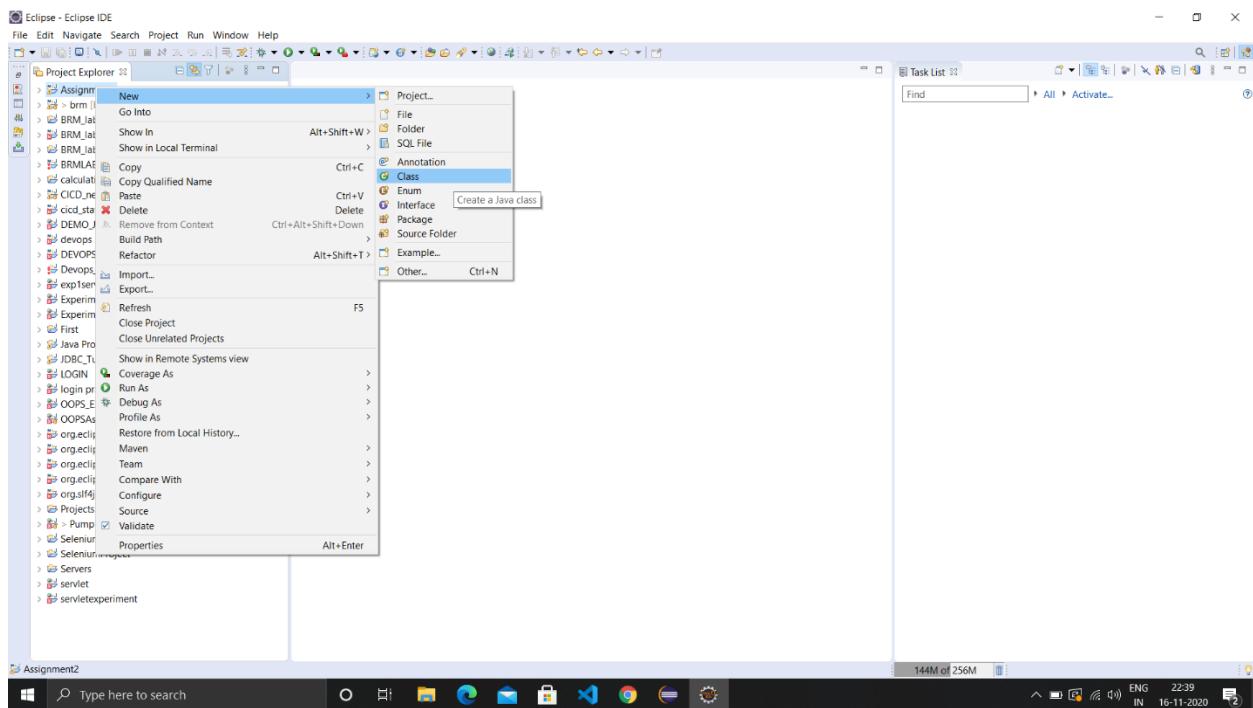


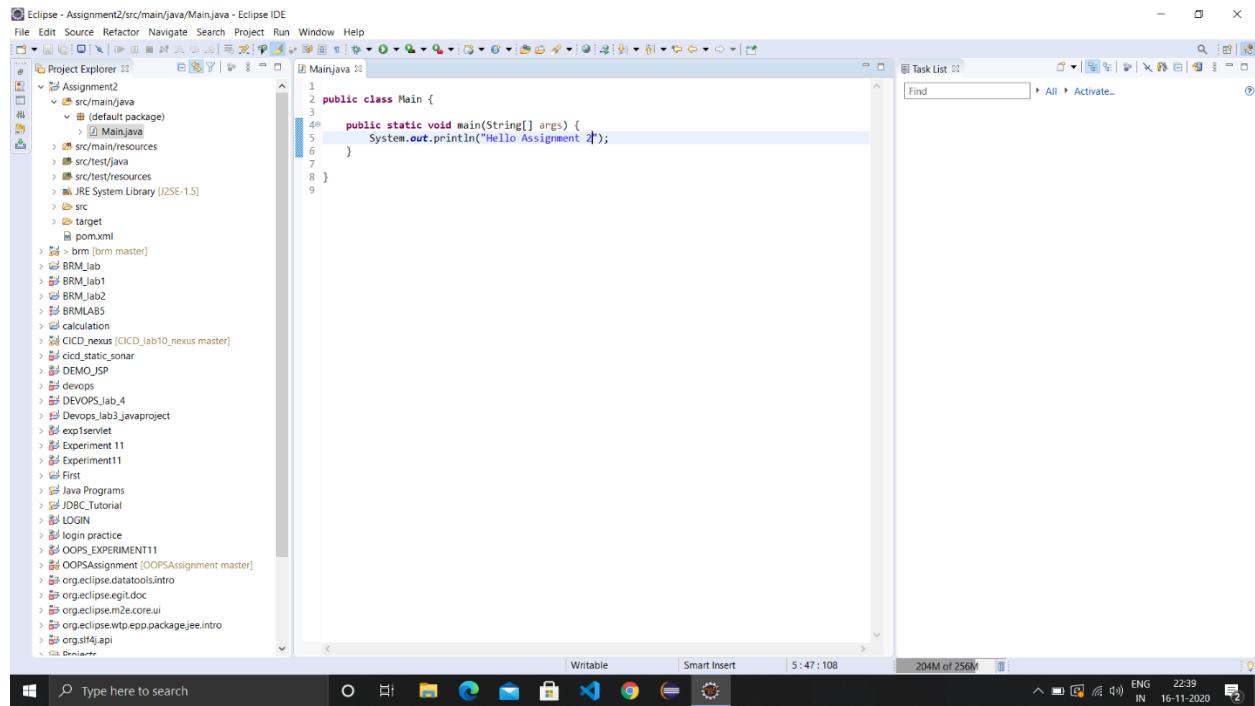


2. Assign an group ID and artifact ID to the project.

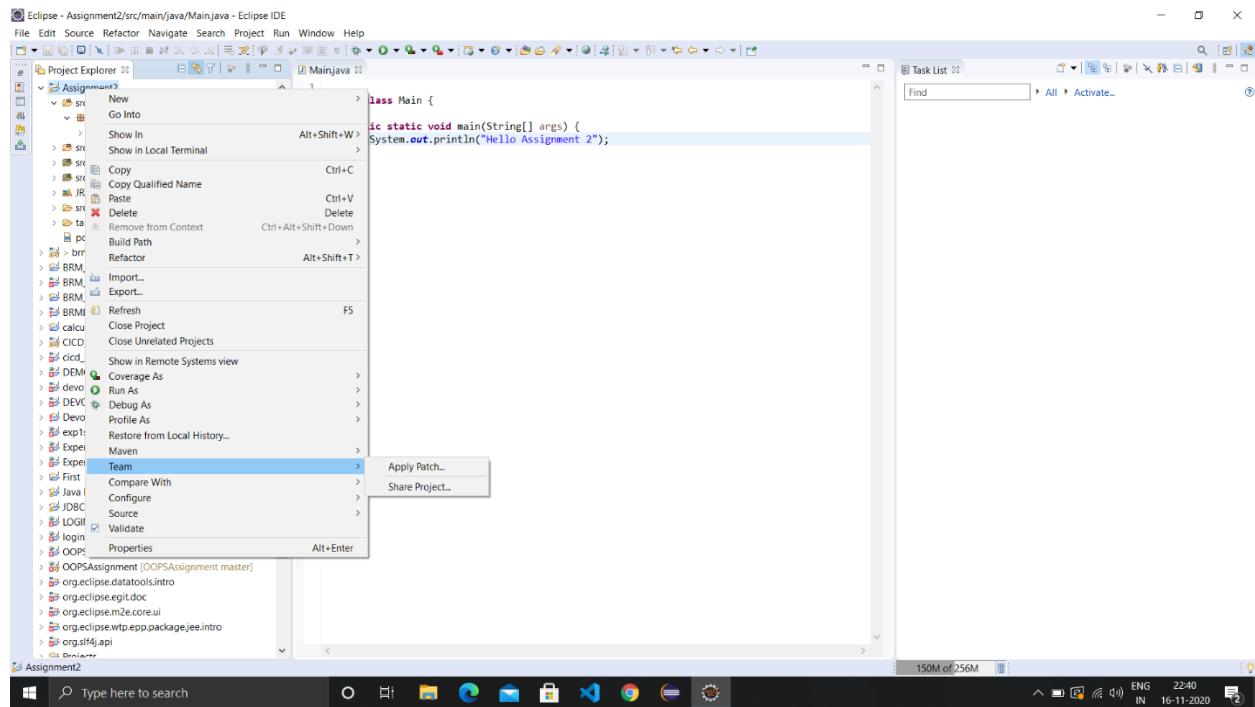


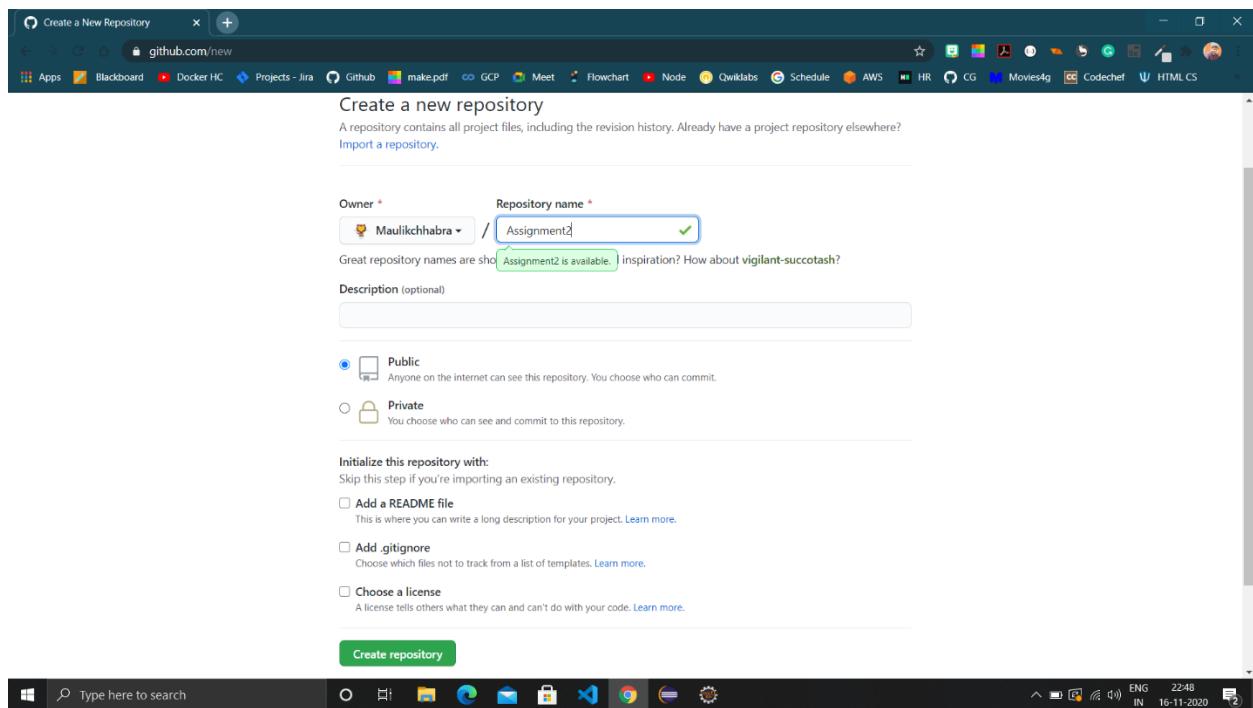
- Click Finish to successfully create the project, now right click on the project and select new and then a Java class for the source code.



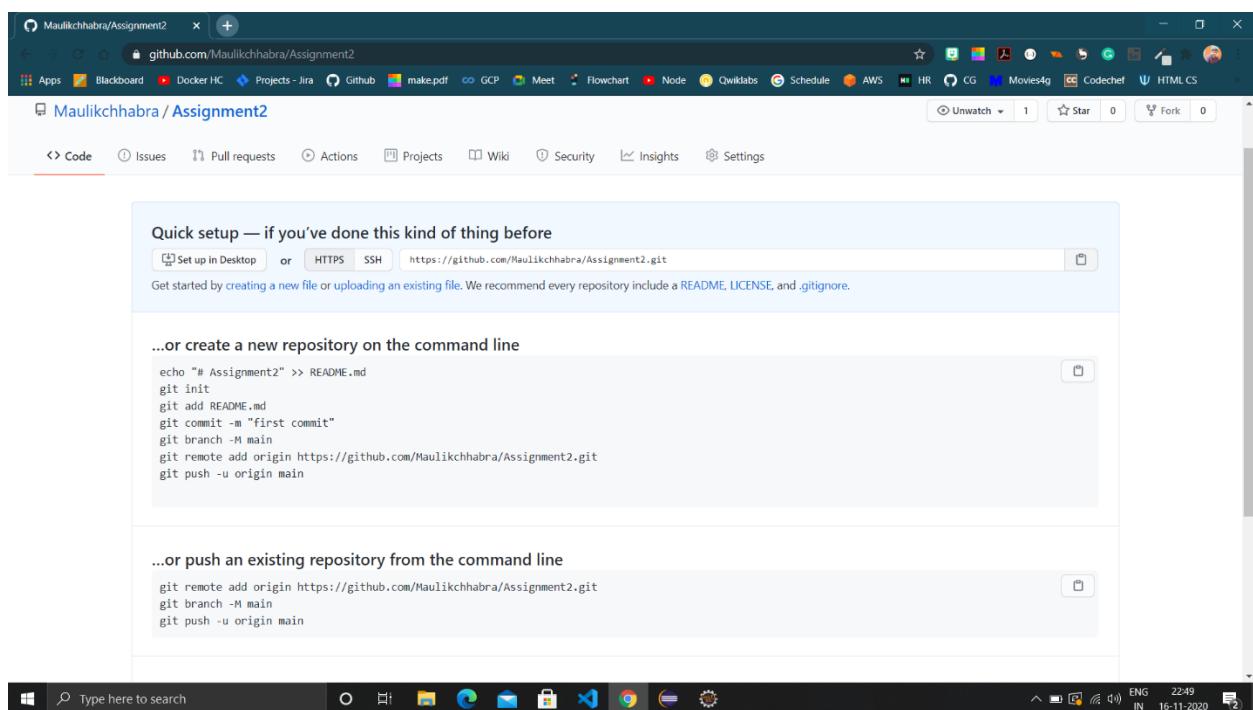


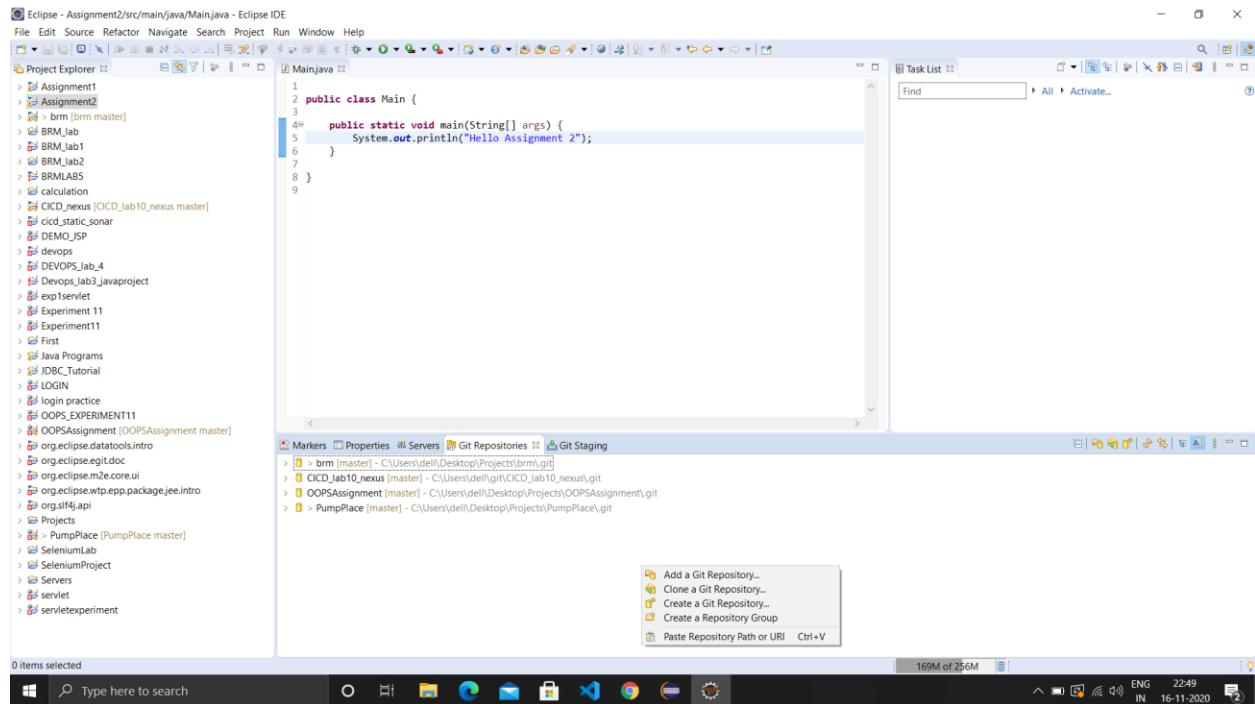
4. Right click on the project and click on Team to share the project on github. For that, we first have to make a github repository and connect it to eclipse so that we can push the project to github.



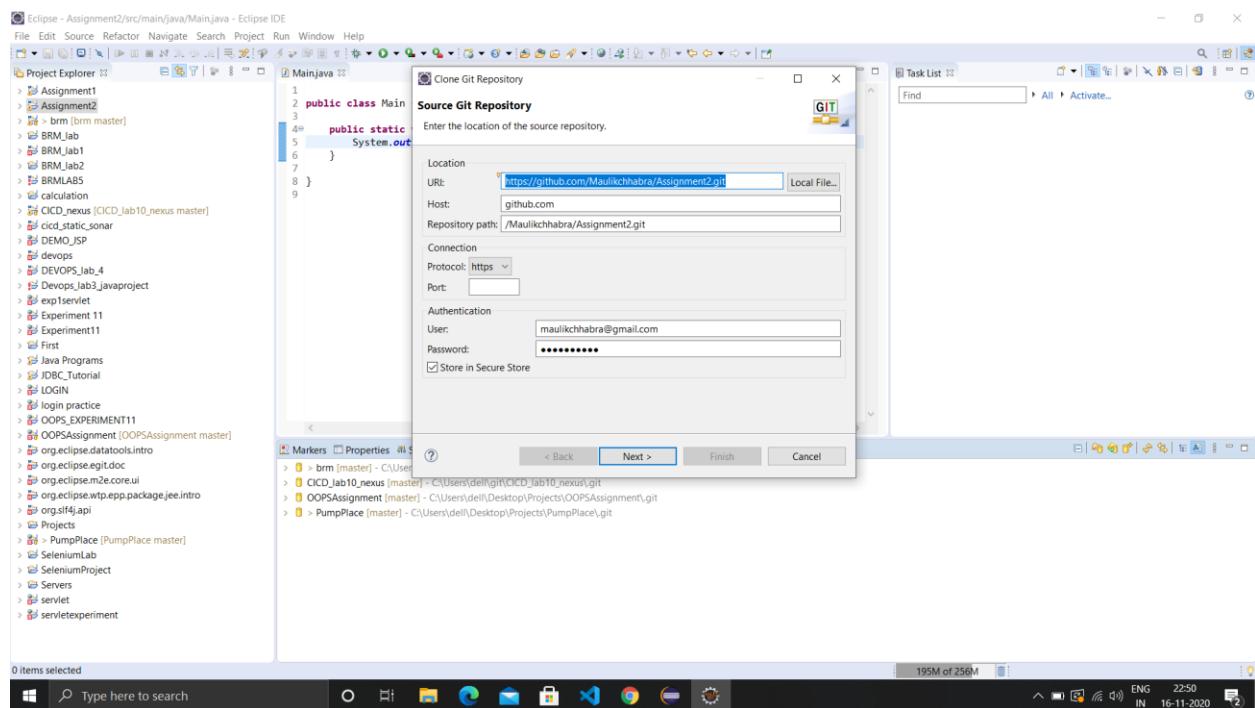


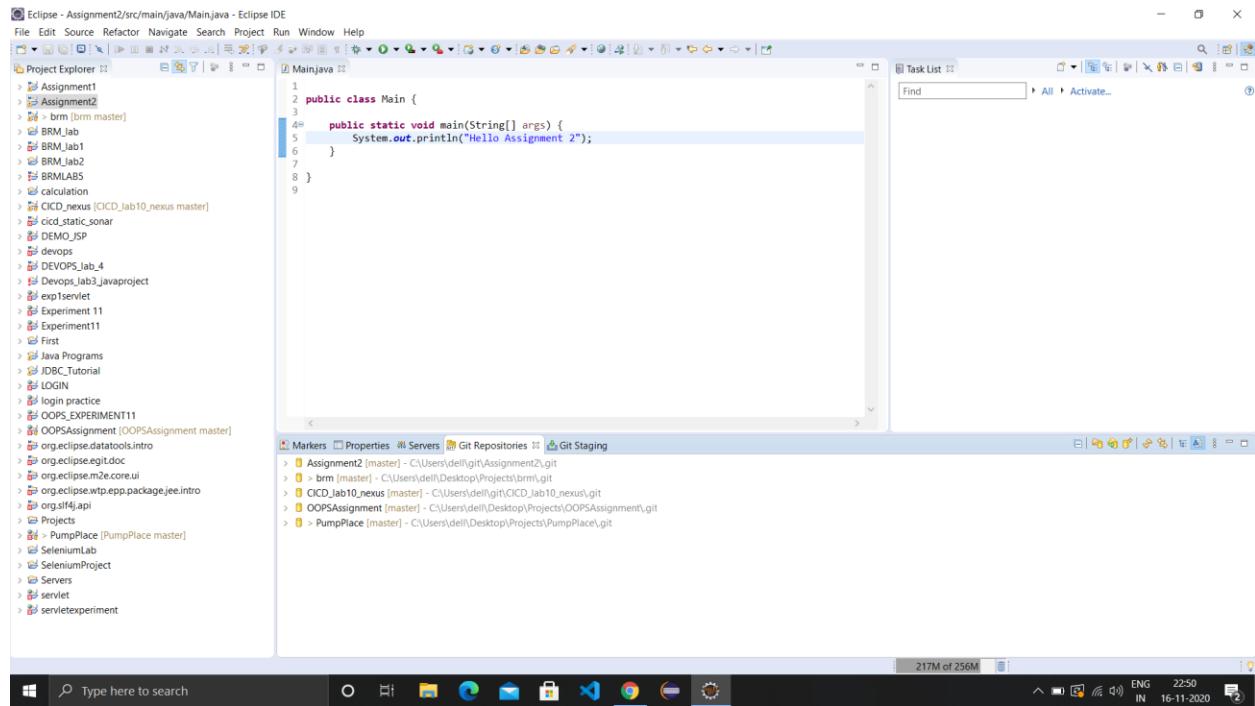
5. The repository is created, copy its link and head back to git repositories tab in maven, right click and choose 'Clone a git repository.'



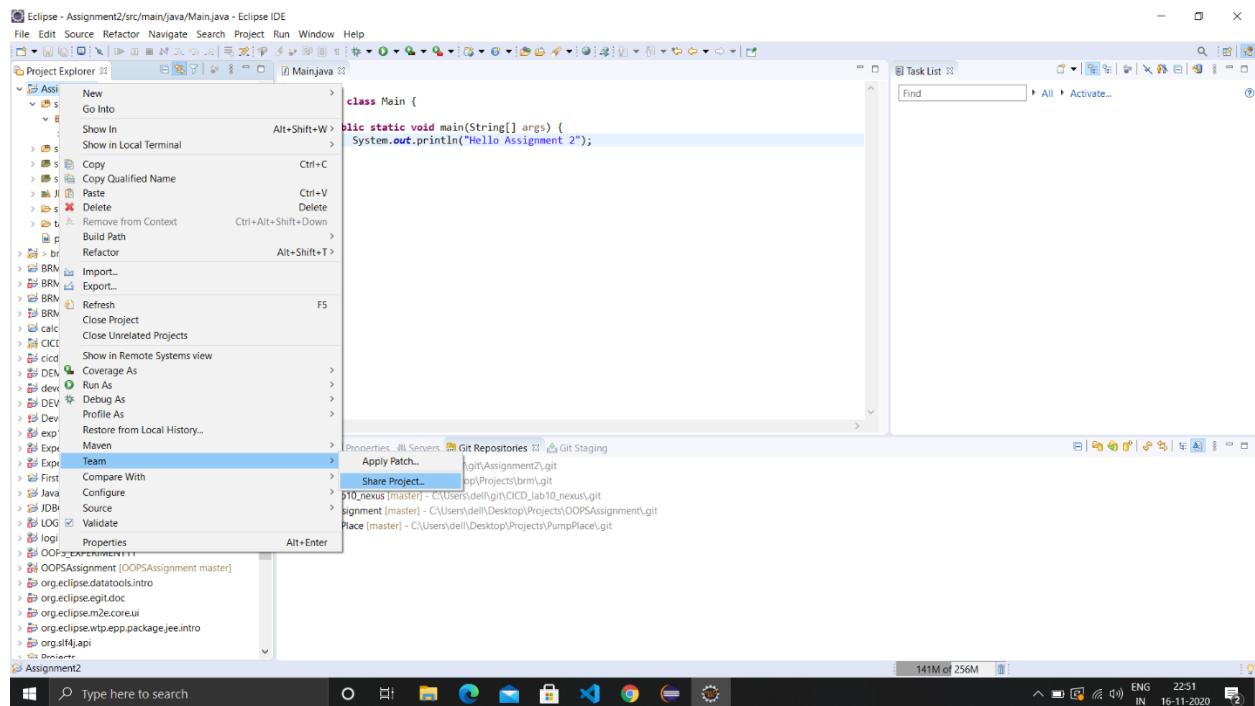


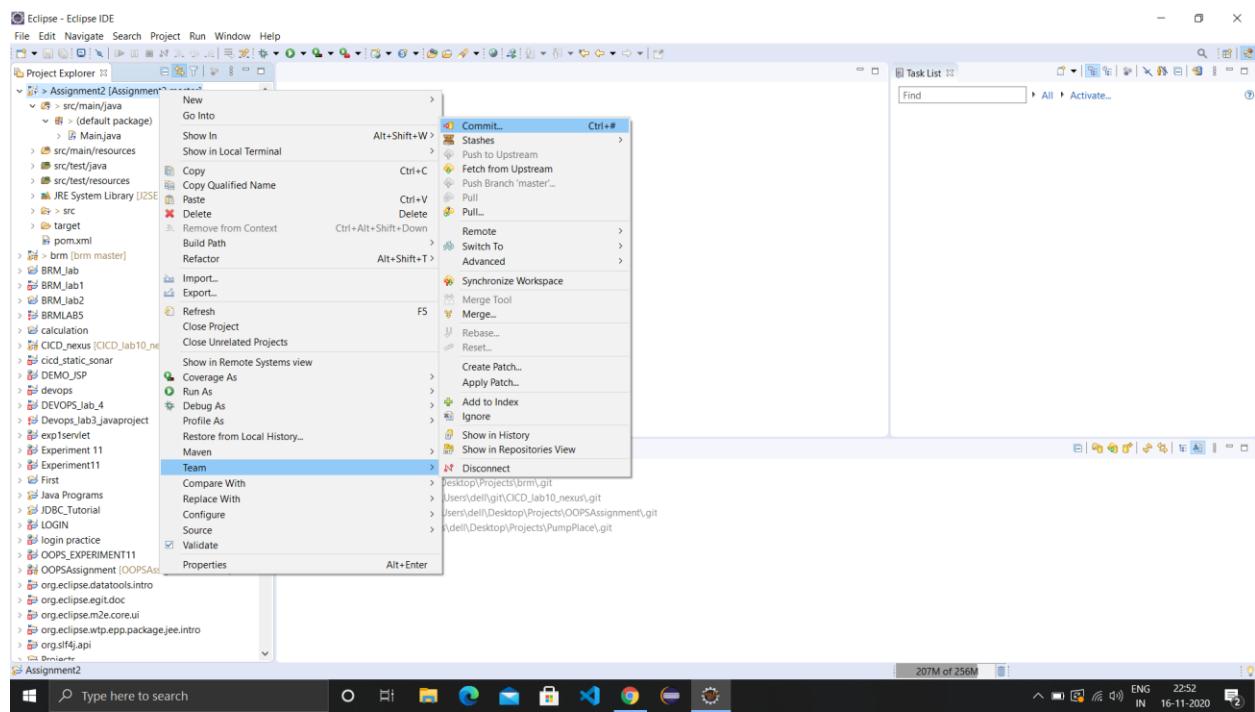
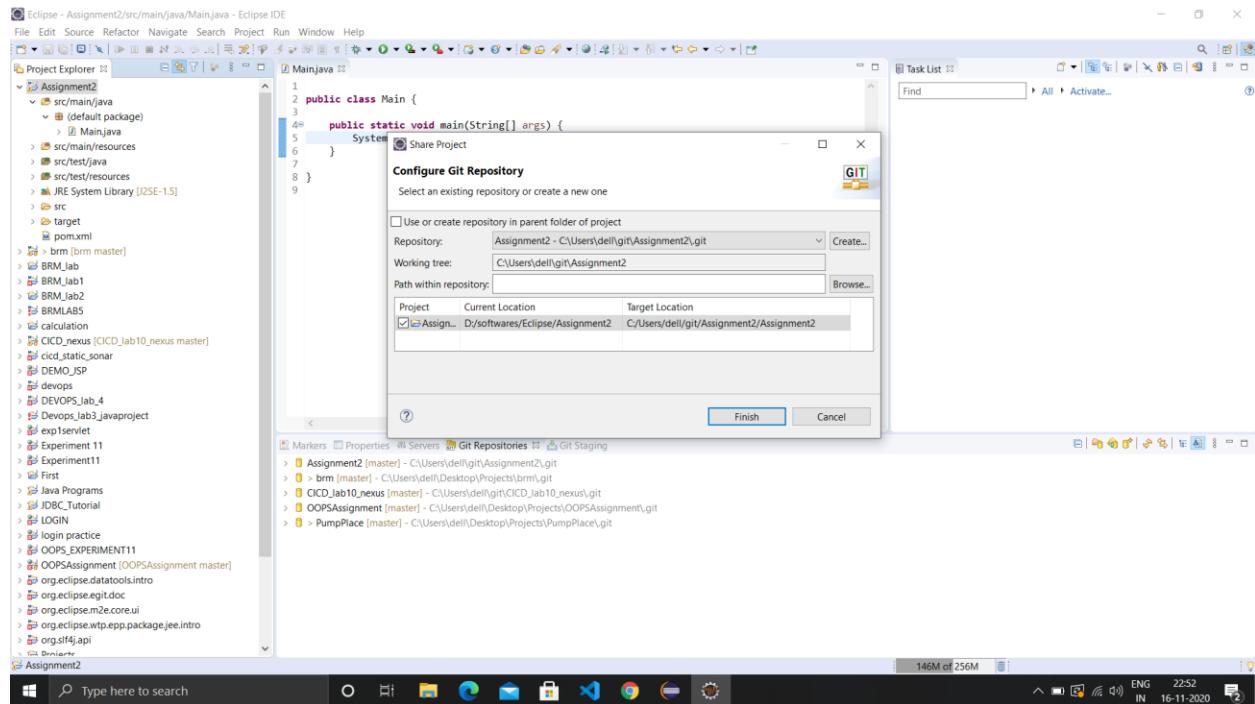
6. Paste the copied repository link and click Next and Finish, now the repository is connected to eclipse and we can push the project.



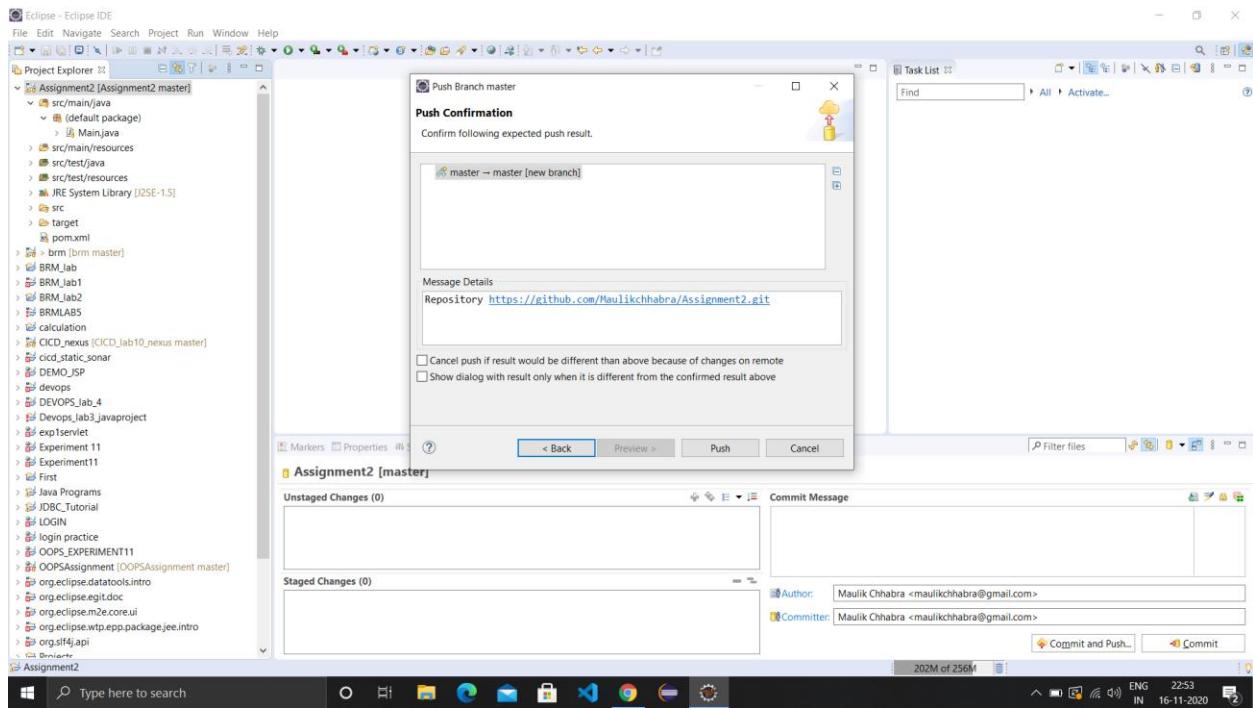
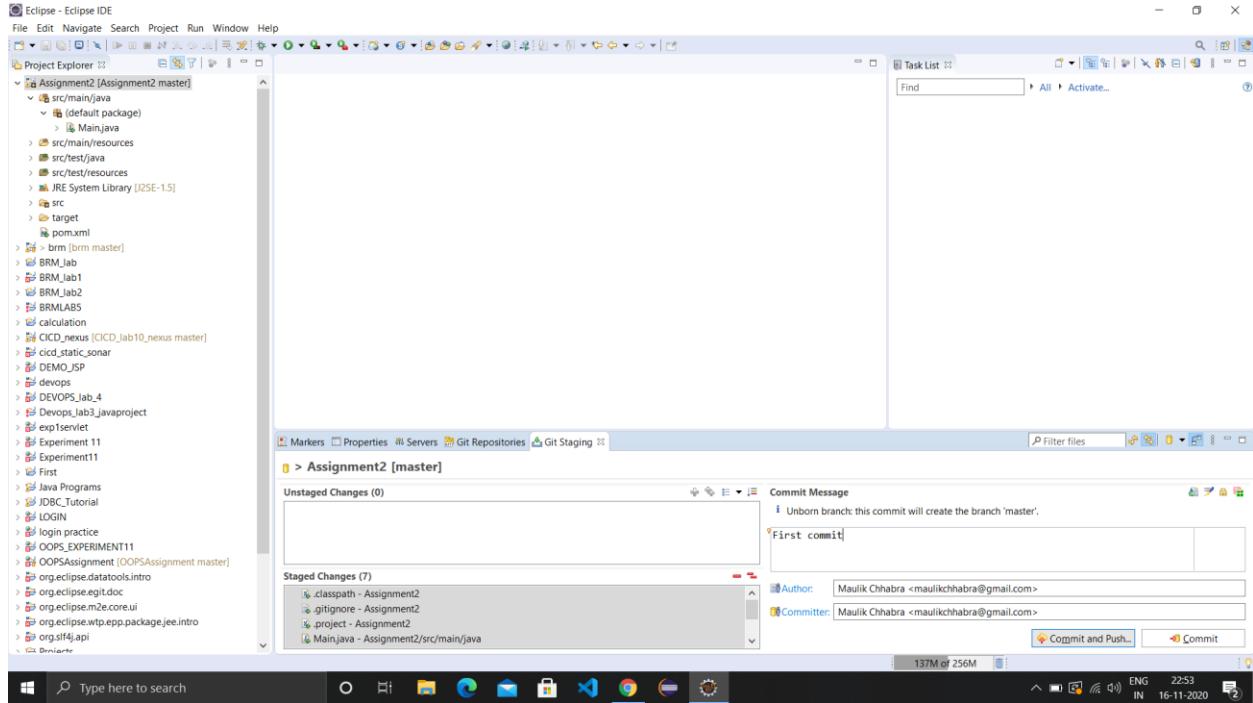


- Click on Team tab, configure the repository by selecting the repository and select Commit and stage all the files, provide the commit message and push to github.





All files are staged



The project is available now on the git repository.

The screenshot shows a GitHub repository page for 'Maulikchhabra/Assignment2'. The repository has 1 branch and 0 tags. It contains one file named 'Assignment2' with a 'First commit' made by 'Maulikchhabra' 1 minute ago. A button to 'Add a README' is visible. The repository has 2 commits and no releases or packages published.

Code | **Issues** | **Pull requests** | **Actions** | **Projects** | **Wiki** | **Security** | **Insights** | **Settings**

master | 1 branch | 0 tags | Go to file | Add file | **Code**

Maulikchhabra First commit | 87ec992 1 minute ago | 2 commits

Assignment2 | First commit | 1 minute ago

Add a README

About: No description, website, or topics provided.

Releases: No releases published. Create a new release.

Packages: No packages published. Publish your first package.



8. Login to the Jenkins dashboard by using cmd and command 'java -jar Jenkins.war'.

The Jenkins dashboard displays a list of build jobs:

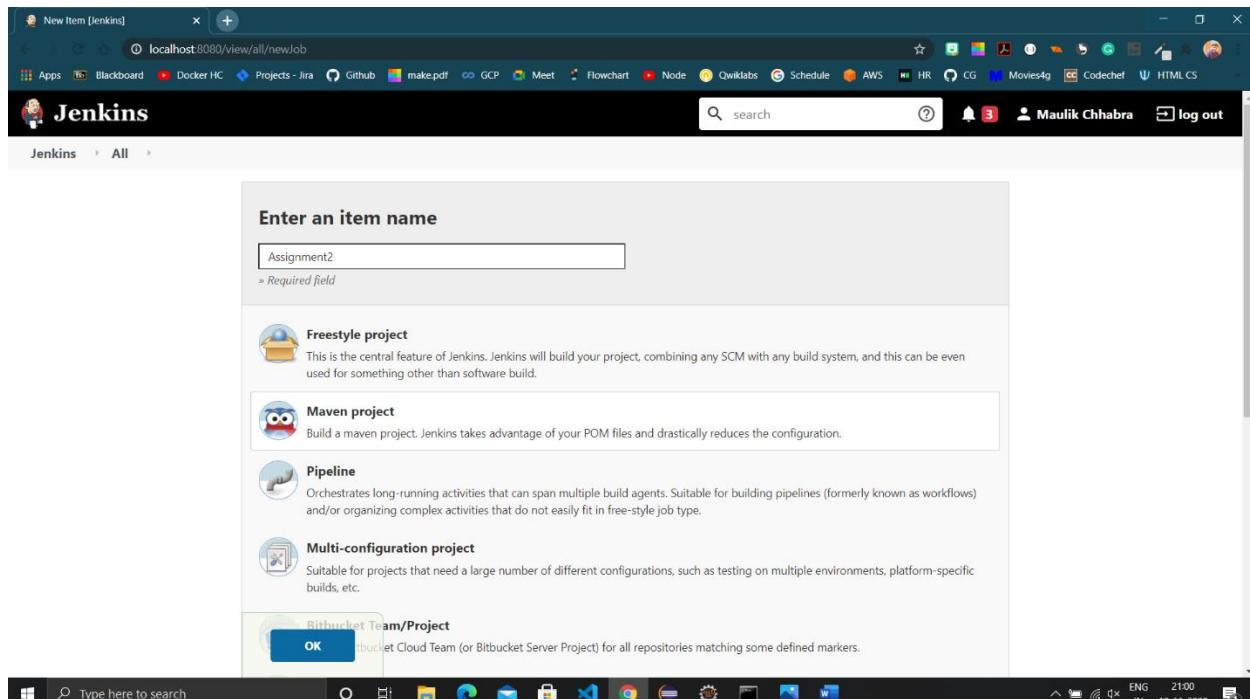
S	W	Name	Last Success	Last Failure	Last Duration	Fav
●	⌚	CICD-lab1	3 mo 4 days - #5	1 mo 27 days - #6	20 sec	⭐
●	☀️	CICD_lab10_nexus	1 mo 11 days - #8	1 mo 13 days - #4	9.1 sec	⭐
●	☀️	CICD_lab2_sonarqube	2 mo 28 days - #3	2 mo 28 days - #1	49 sec	⭐
●	🌧	CICD_lab3_JenkinsFile	2 mo 24 days - #15	2 mo 25 days - #14	15 sec	⭐
●	🤖	CICD_lab5_B2	2 mo 7 days - #2	2 mo 7 days - #1	6.3 sec	⭐
●	💻	CICD_lab6_BlueOcean	2 mo 4 days - log	N/A	3.8 sec	⭐
●	☀️	Jenkins_Demo	1 mo 6 days - #2	N/A	7.9 sec	⭐
●	☀️	Jenkins_Demo1	1 mo 6 days - #1	N/A	31 sec	⭐
●	💻	Ocean	2 mo 4 days - log	N/A	3.4 sec	⭐

New Item | People | Build History | Project Relationship | Check File Fingerprint | Manage Jenkins | My Views | Open Blue Ocean | Lockable Resources | New View

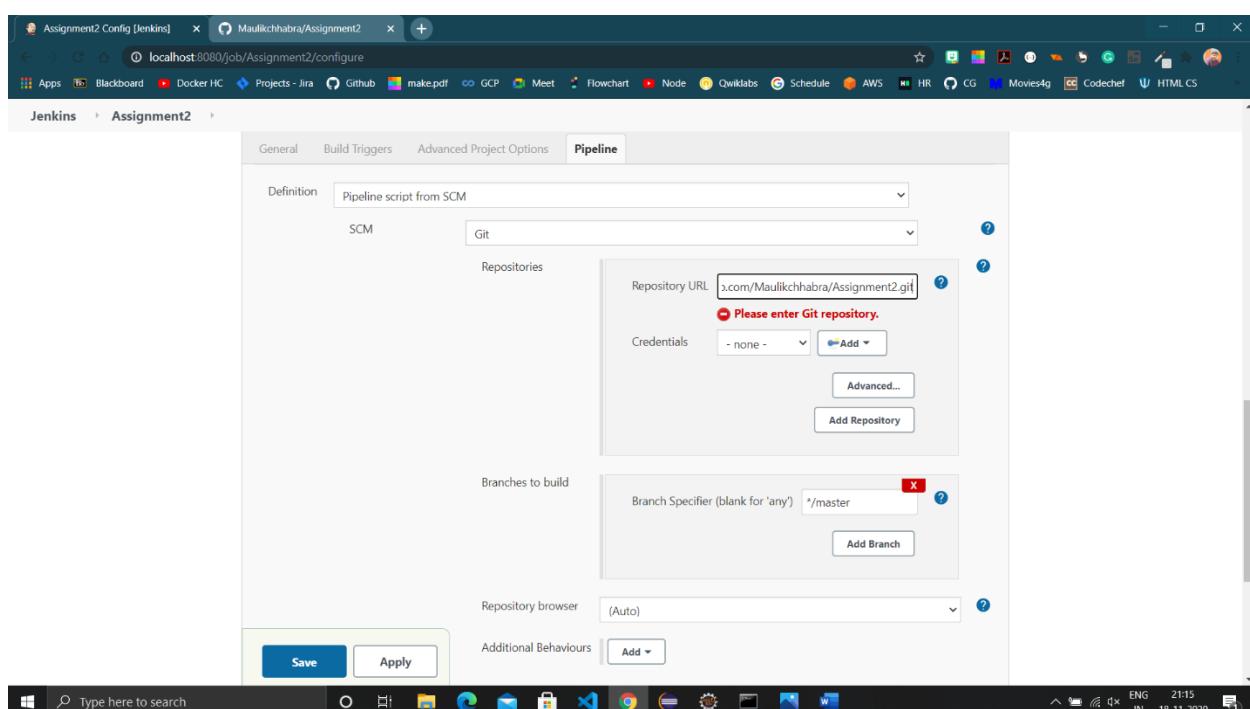
Build Queue: No builds in the queue.

Build Executor Status: Icon: S M L | Legend | Atom feed for all | Atom feed for failures | Atom feed for just latest builds

9. Click on New Item and select a pipeline and provide a suitable name, provide the configuration as providing the link to the github repo.

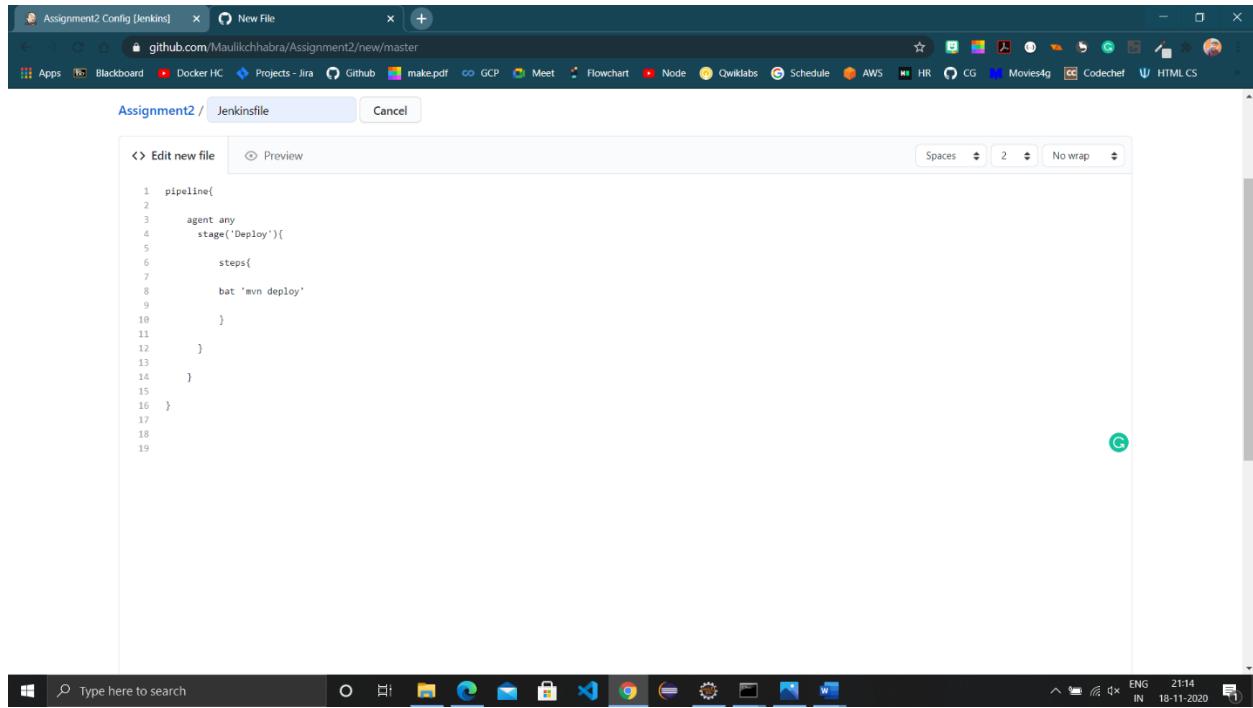


The screenshot shows the Jenkins 'New Item' dialog. The 'Item Name' field contains 'Assignment2'. Below it, a 'Freestyle project' option is selected, with a description: 'This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.' Other options like 'Maven project', 'Pipeline', and 'Multi-configuration project' are also listed. A 'Bitbucket Team/Project' button is visible at the bottom right of the dialog. The background shows a Windows taskbar with various icons.



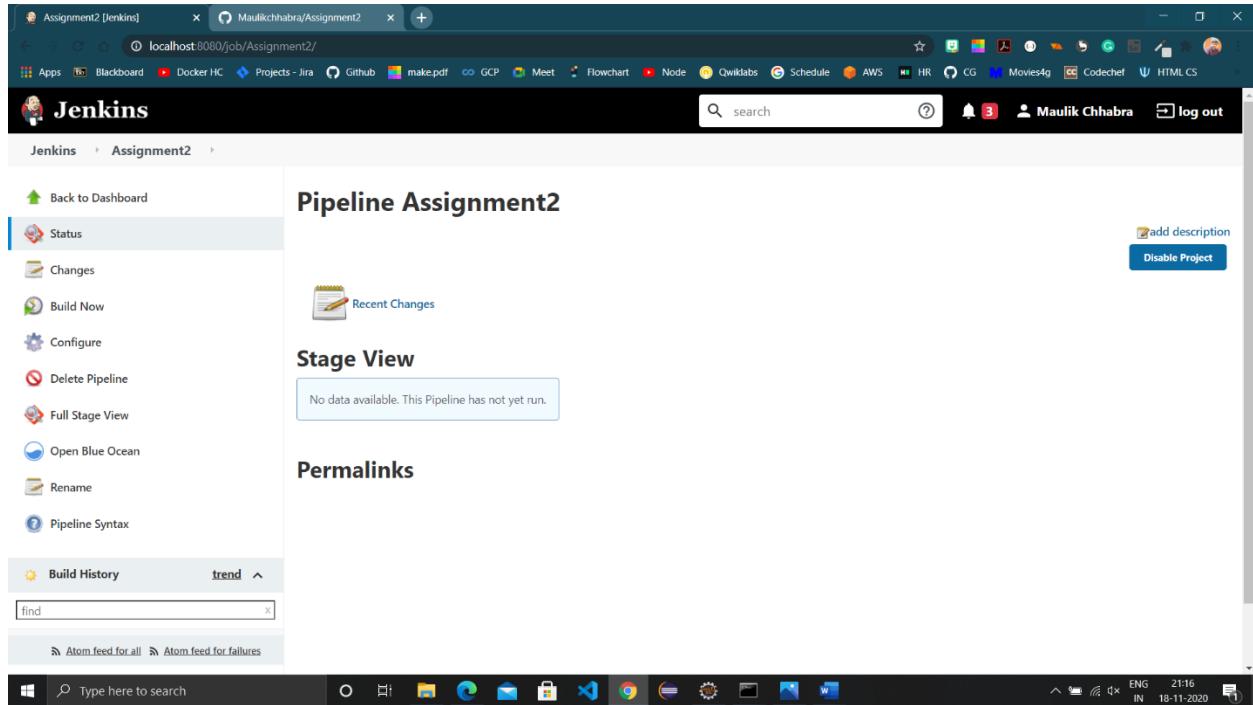
The screenshot shows the Jenkins configuration dialog for 'Assignment2'. The 'Pipeline' tab is selected. Under 'Definition', 'Pipeline script from SCM' is chosen, and 'SCM' is set to 'Git'. The 'Repository URL' field contains 'https://github.com/Maulikchhabra/Assignment2.git'. A red error message 'Please enter Git repository.' is displayed next to the URL field. The 'Branches to build' section shows 'Branch Specifier (blank for 'any')' as '*/*'. The 'Save' and 'Apply' buttons are at the bottom left. The background shows a Windows taskbar with various icons.

10. In the same repo, create a Jenkinsfile as given in the code below.



```
1 pipeline{
2     agent any
3     stage('Deploy'){
4         steps{
5             bat 'mvn deploy'
6         }
7     }
8 }
```

11. The pipeline on Jenkins is created.



12. Login to the Nexus repository manager using the command prompt.

```

D:\softwares\nexus\nexus-3.18.1-01\bin>nexus.exe /run
2020-11-18 21:21:31,815+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.pax.logging.NexusLogActivator - start
2020-11-18 21:21:31,815+0530 WARN [ FelixStartLevel ] >SYSTEM uk.org.lidalia.sysoutsif4.context.SysOutOverSlf4jInitializer - Your logging framework class org.ops4j.pax.logging.slf4j.Slf4jLogger is not known - if it has access to the standard print methods then you will need to register it by calling registerLoggingSystem(Package
2020-11-18 21:21:31,815+0530 INFO [ FelixStartLevel ] >SYSTEM uk.org.lidalia.sysoutsif4.context.SysOutOverSlf4j - Package org.ops4j.pax.logging.slf4j registered; all classes within it or subpackages of it will b
e allowed to print to Sysout.out and System.out
2020-11-18 21:21:34,399+0530 INFO [ FelixStartLevel ] >SYSTEM uk.org.lidalia.sysoutsif4.context.SysOutOverSlf4j - Replaced standard System.out and System.err PrintStreams with SLF4JPrintStreams
2020-11-18 21:21:34,404+0530 INFO [ FelixStartLevel ] >SYSTEM uk.org.lidalia.sysoutsif4.context.SysOutOverSlf4j - Redirected System.out and System.err to SLF4J for this context
2020-11-18 21:21:34,422+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - Properties:
2020-11-18 21:21:34,424+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - application-host="0.0.0.0"
2020-11-18 21:21:34,425+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - application-port="8081"
2020-11-18 21:21:34,426+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - fabric/etc=D:\softwares\nexus\nexus-3.18.1-01/etc/fabric'
2020-11-18 21:21:34,428+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - jetty/etc=D:\softwares\nexus\nexus-3.18.1-01/etc/jetty'
2020-11-18 21:21:34,429+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf/base=D:\softwares\nexus\nexus-3.18.1-01'
2020-11-18 21:21:34,430+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf/data=D:\softwares\nexus\sonatype-work\nexus3'
2020-11-18 21:21:34,431+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf/home=D:\softwares\nexus\nexus-3.18.1-01'
2020-11-18 21:21:34,432+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karafinstances=D:\softwares\nexus\sonatype-work\nexus3/instances'
2020-11-18 21:21:34,433+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - logback/etc=D:\softwares\nexus\nexus-3.18.1-01/etc/logback'
2020-11-18 21:21:34,434+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexusargs=D:\softwares\nexus\nexus-3.18.1-01/etc/jetty.jetty.xml,D:\softwares\nexus\nexus-3.18.1-01/etc/jetty/jetty-requestlog.xml'
2020-11-18 21:21:34,435+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-context-paths/'
2020-11-18 21:21:34,435+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-edition='nexus-pro-edition'
2020-11-18 21:21:34,440+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-features='nexus-pro-feature'
2020-11-18 21:21:34,441+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-hazelcast-discovery.isEnabled='true'
2020-11-18 21:21:34,442+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - ssl/etc=D:\softwares\nexus\nexus-3.18.1-01/etc/ssl'
2020-11-18 21:21:34,444+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.launcher - Java 1.8.0_192, OpenJDK 64-Bit Server VM, Azul Systems, Inc., 25.192-b01
2020-11-18 21:21:34,445+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.launcher - OS: Windows 10, 10.0, amd64
2020-11-18 21:21:34,446+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.launcher - User: dell, en, C:/Users/dell
2020-11-18 21:21:34,447+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.launcher - CMD: D:\softwares\nexus\nexus-3.18.1-01
2020-11-18 21:21:34,448+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.launcher - JRE: D:\softwares\nexus\sonatype-work\nexus3\tmp
2020-11-18 21:21:34,480+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Starting
2020-11-18 21:21:34,521+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Logging initialized @14387ms to org.eclipse.jetty.util.log.Slf4jLog
2020-11-18 21:21:34,568+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Applying configuration: file:D:/softwares/nexus/nexus-3.18.1-01/etc/jetty/jetty.xml
2020-11-18 21:21:34,570+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Applying configuration: file:D:/softwares/nexus/nexus-3.18.1-01/etc/jetty/jetty-http.xml
2020-11-18 21:21:35,064+0530 INFO [ FelixStartLevel ] >SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Starting: Server@15706ec[STOPPED][9.4.18.v2019e42]
2020-11-18 21:21:35,106+0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Starting: Server@15706ec[STOPPED][9.4.18.v2019e42]
2020-11-18 21:21:35,117+0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.Server - jetty-9.4.18.v20190429; built: 2019-04-29T20:42:08.989Z; git: elbc35120a6617ee3df052294e433f3a25ce7097; jvm 1.8.0_192-b01
2020-11-18 21:21:35,249+0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - DefaultSessionIdManager.workerName=none
2020-11-18 21:21:35,251+0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - No SessionScavenger set, using defaults
2020-11-18 21:21:35,252+0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - node0 Scavenging every 60000ms
2020-11-18 21:21:35,253+0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Initializing
2020-11-18 21:21:35,266+0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Using nexus-oss Edition
2020-11-18 21:21:35,270+0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Installing: nexus-oss-edition/3.18.1-01
2020-11-18 21:21:35,391+0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Installed: nexus-oss-edition/3.18.1-01
2020-11-18 21:21:40,459+0530 INFO [jetty-main-1] *SYSTEM org.apache.shiro.nexus.NexusWebSessionManager - Global session timeout: 1800000 ms
2020-11-18 21:21:40,454+0530 INFO [jetty-main-1] *SYSTEM org.apache.shiro.nexus.NexusWebSessionManager - Session-cookie prototype: name=NXSESSIONID

```

```

TIME 00
2020-11-18 21:22:21,335+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [2e981e678a325bc6e9f6790fffc676971d56] creating index, cause [api], templates [], shards [1/0], mappings [component] ]
2020-11-18 21:22:21,404+0530 INFO [ quartz-3-thread-1 ] *SYSTEM org.sonatype.repository.search.SearchfacetImpl - Rebuilding index of repository maven-central
2020-11-18 21:22:21,467+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [clusterService#updateTask@#1]] *SYSTEM org.elasticsearch.cluster.metadata - [F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [73aae4bc0666ba7e3bb34435e41d2929b66495a] creating index, cause [api], templates [], shards [1/0], mappings [component]
2020-11-18 21:22:21,480+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Initializing
2020-11-18 21:22:21,481+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Using nexus-oss Edition
2020-11-18 21:22:21,482+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Installing: nexus-oss-edition/3.18.1-01
2020-11-18 21:22:21,491+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.BootstrapListener - Installed: nexus-oss-edition/3.18.1-01
2020-11-18 21:22:21,492+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.apache.shiro.nexus.NexusWebSessionManager - Global session timeout: 1800000 ms
2020-11-18 21:22:21,494+0530 INFO [ elasticsearch[F5B03FFE-BBF48A28-B27E5C5D-24E06E86-3506907D] [jetty-main-1] *SYSTEM org.apache.shiro.nexus.NexusWebSessionManager - Session-cookie prototype: name=NXSESSIONID

```

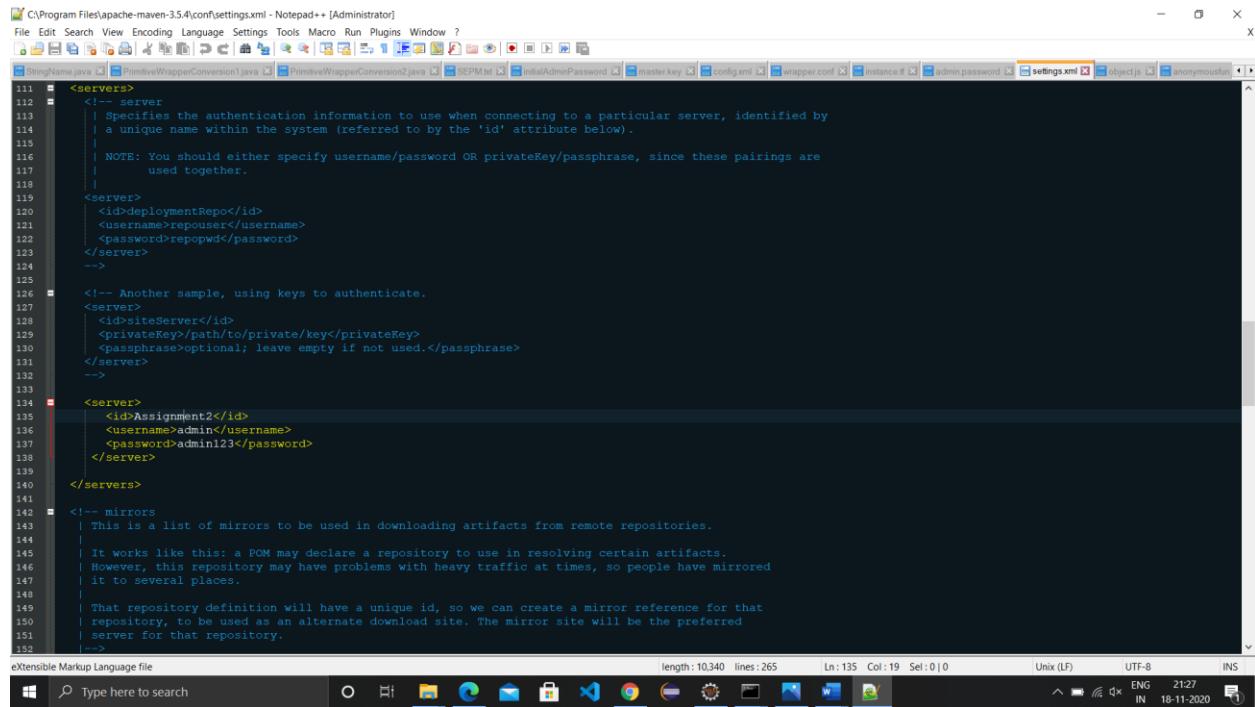
Started Sonatype Nexus OSS 3.18.1-01

13. Create a new Maven(hosted) repository in Nexus with a suitable name, allow redeploy.

The screenshot shows the Sonatype Nexus Repository Manager interface. The left sidebar has a green 'Browse' tab selected. The main area is titled 'Browse' and shows a list of repositories. A search bar at the top right says 'Search components'. The table columns are Name, Type, Format, Status, URL, and Health check. Several rows have a 'copy' button in the URL column and a 'Analyze' button in the Health check column. The repositories listed include 'clicd0nexus', 'clicdlab8', 'clicdnexus', 'maven-central', 'maven-public', 'maven-releases', 'maven-snapshots', 'nuget-group', 'nuget-hosted', and 'nuget.org-proxy'. The status for most is 'Online', except for 'maven-central' which is 'Online - Ready to Connect'.

The screenshot shows the 'Administration' section of the Sonatype Nexus Repository Manager. The left sidebar has a green 'Repositories' tab selected. The main area is titled 'Repositories / Assignment2'. It shows settings for a Maven 2 repository named 'Assignment2'. The 'Name' is 'Assignment2', 'Format' is 'maven2', 'Type' is 'hosted', 'URL' is 'http://localhost:8081/repository/Assignment2/', and 'Online' is checked. Below this, there are sections for 'Maven 2', 'Storage', and 'Hosted'. A success message 'Repository updated: Assignment2' is displayed in a green box. The bottom of the screen shows a Windows taskbar with various icons and system status.

14. Create an entry of the server on settings.xml in apache maven folder.



```
<!-- server
   | Specifies the authentication information to use when connecting to a particular server, identified by
   | a unique name within the system (referred to by the 'id' attribute below).
   |
   | NOTE: You should either specify username/password OR privateKey/passphrase, since these pairings are
   |        used together.
-->
<server>
<id>deploymentRepo</id>
<username>repouser</username>
<password>repowd</password>
</server>
-->

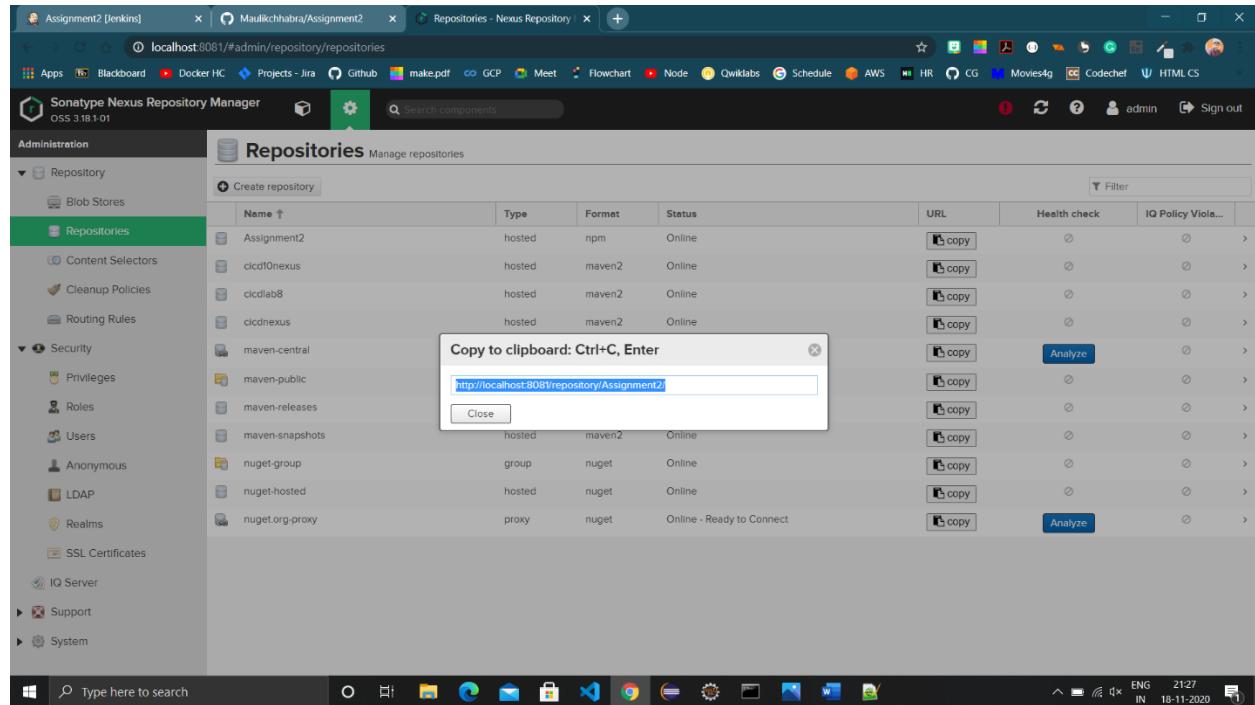
<!-- Another sample, using keys to authenticate.
-->
<server>
<id>siteServer</id>
<privateKey>/path/to/private/key</privateKey>
<passphrase>optional; leave empty if not used.</passphrase>
</server>
-->

<server>
<id>Assignment2</id>
<username>admin</username>
<password>admin123</password>
</server>
-->

</servers>

<!-- mirrors
   | This is a list of mirrors to be used in downloading artifacts from remote repositories.
   |
   | It works like this: a POM may declare a repository to use in resolving certain artifacts.
   | However, this repository may have problems with heavy traffic at times, so people have mirrored
   | it to several places.
   |
   | That repository definition will have a unique id, so we can create a mirror reference for that
   | repository, to be used as an alternate download site. The mirror site will be the preferred
   | server for that repository.
-->
```

15. Copy the link of the nexus repository and paste it in the pom.xml of the github project with the name of the nexus repository.



Name	Type	Format	Status	URL	Health check	IQ Policy Viol...
Assignment2	hosted	npm	Online	copy	analyze	>
cicd0nexus	hosted	maven2	Online	copy	analyze	>
cicdab8	hosted	maven2	Online	copy	analyze	>
cicdexus	hosted	maven2	Online	copy	analyze	>
maven-central	maven	maven2	Online	copy	analyze	>
maven-public	maven	maven2	Online	copy	analyze	>
maven-releases	maven	maven2	Online	copy	analyze	>
maven-snapshots	maven	maven2	Online	copy	analyze	>
nuget-group	group	nuget	Online	copy	analyze	>
nuget-hosted	hosted	nuget	Online	copy	analyze	>
nuget.org-proxy	proxy	nuget	Online - Ready to Connect	copy	analyze	>

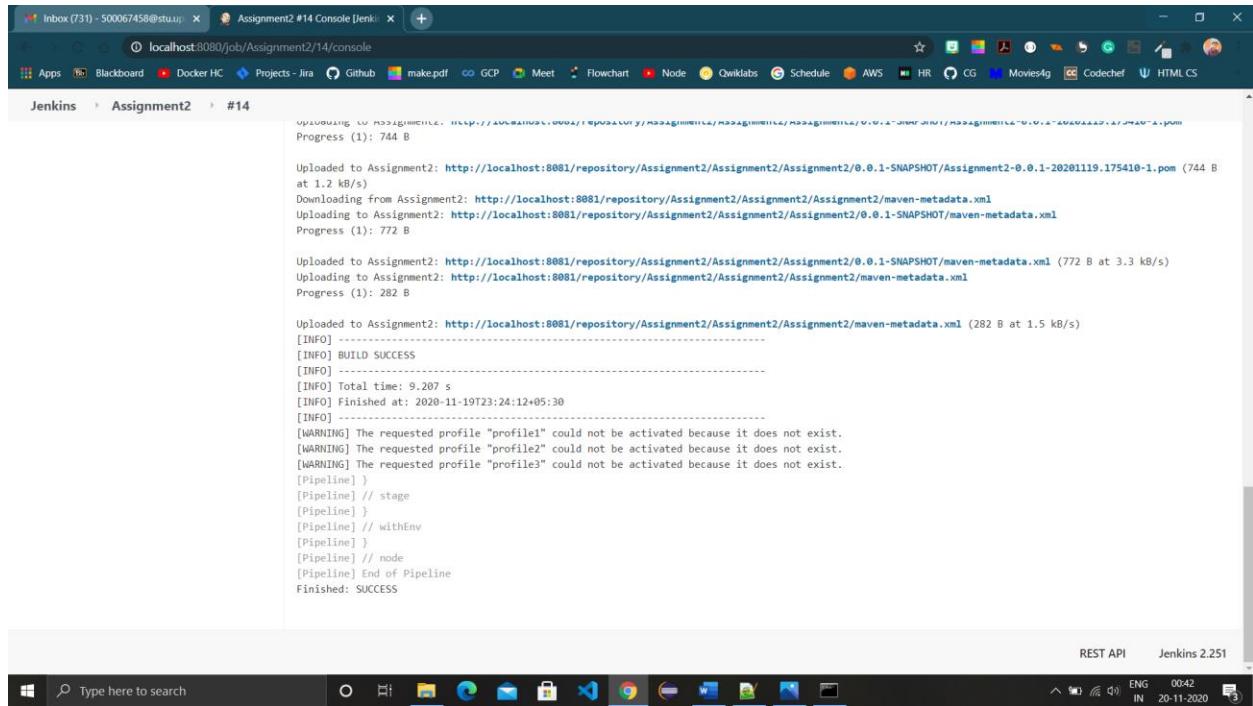
```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>Assignment2</groupId>
    <artifactId>Assignment2</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <properties>
        <maven.compiler.source>1.6</maven.compiler.source>
        <maven.compiler.target>1.6</maven.compiler.target>
    </properties>
    <distributionManagement>
        <snapshotRepository>
            <id>Assignment2</id>
            <name>Assignment2</name>
            <url>http://localhost:8081/repository/Assignment2/</url>
        </snapshotRepository>
    </distributionManagement>
</project>

```

16. Head back to the pipeline in maven and click on Build Now.

Stage	Duration	Status
#14	3s	Green
#13	5s	Red (failed)
#12	11s	Green



Inbox (731) - 500067458@student.csit. Assignment2 #14 Console [Jenkins] +

localhost:8080/job/Assignment2/14/console

Jenkins > Assignment2 > #14

```
Uploading to Assignment2: https://assignment2.csit. .... /Assignment2/maven-metadata.xml
Progress (1): 744 B

Uploaded to Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/0.0.1-SNAPSHOT/Assignment2-0.0.1-20201119.175410-1.pom (744 B at 1.2 kB/s)
Downloading from Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/maven-metadata.xml
Uploading to Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/Assignment2/0.0.1-SNAPSHOT/maven-metadata.xml
Progress (1): 772 B

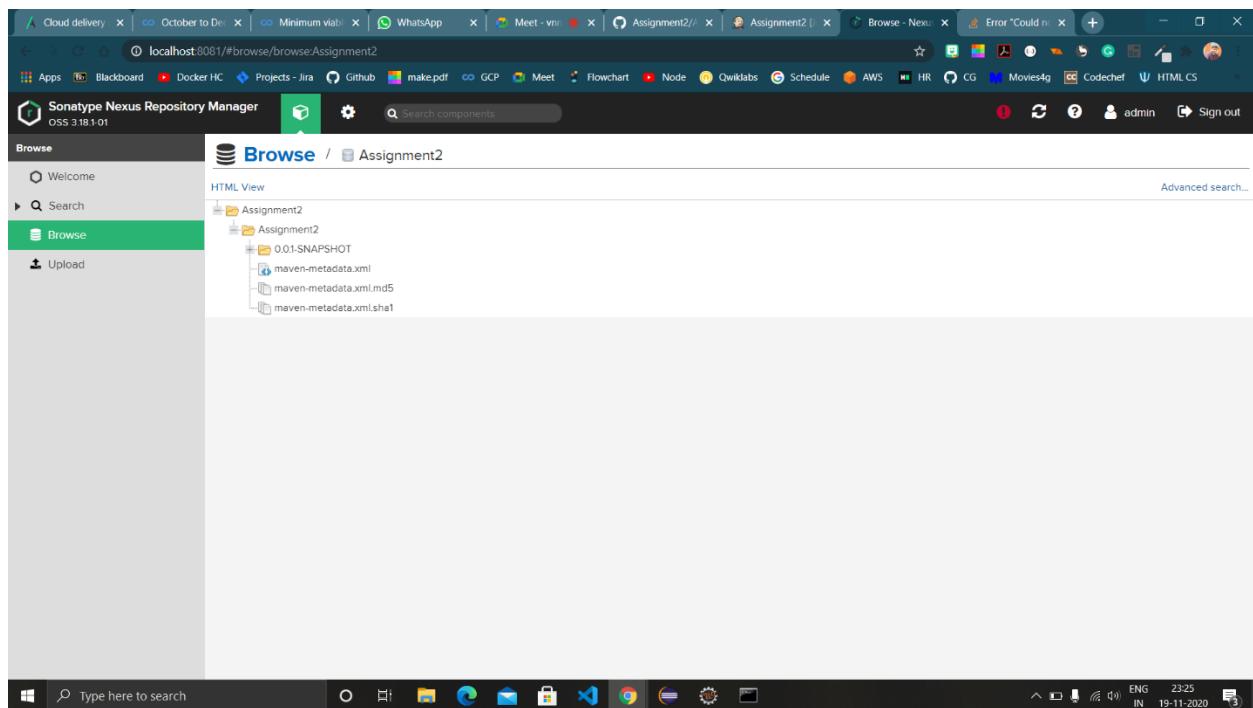
Uploaded to Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/0.0.1-SNAPSHOT/maven-metadata.xml (772 B at 3.3 kB/s)
Uploading to Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/maven-metadata.xml
Progress (1): 282 B

Uploaded to Assignment2: http://localhost:8081/repository/Assignment2/Assignment2/maven-metadata.xml (282 B at 1.5 kB/s)
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.207 s
[INFO] Finished at: 2020-11-19T23:24:12+05:30
[INFO] -----
[WARNING] The requested profile "profile1" could not be activated because it does not exist.
[WARNING] The requested profile "profile2" could not be activated because it does not exist.
[WARNING] The requested profile "profile3" could not be activated because it does not exist.
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API Jenkins 2.251

Type here to search ENG 0042 IN 20-11-2020

The build is stored in nexus repository.



Cloud delivery | October to Dec | Minimum visibility | WhatsApp | Meet - vms | Assignment2 | Assignment2 | Browse - Nexus | Error "Could n... | +

localhost:8081/#browse/browse/Assignment2

Sonatype Nexus Repository Manager OSS 3.18.1.01

Browse / Assignment2

HTML View Advanced search...

Welcome

Search

Browse

Upload

Assignment2

0.01-SNAPSHOT

maven-metadata.xml

maven-metadata.xml.md5

maven-metadata.xml.sha1

Type here to search ENG 23:25 IN 19-11-2020