

# CICD ASSIGNMENT-2

**Submitted by:**

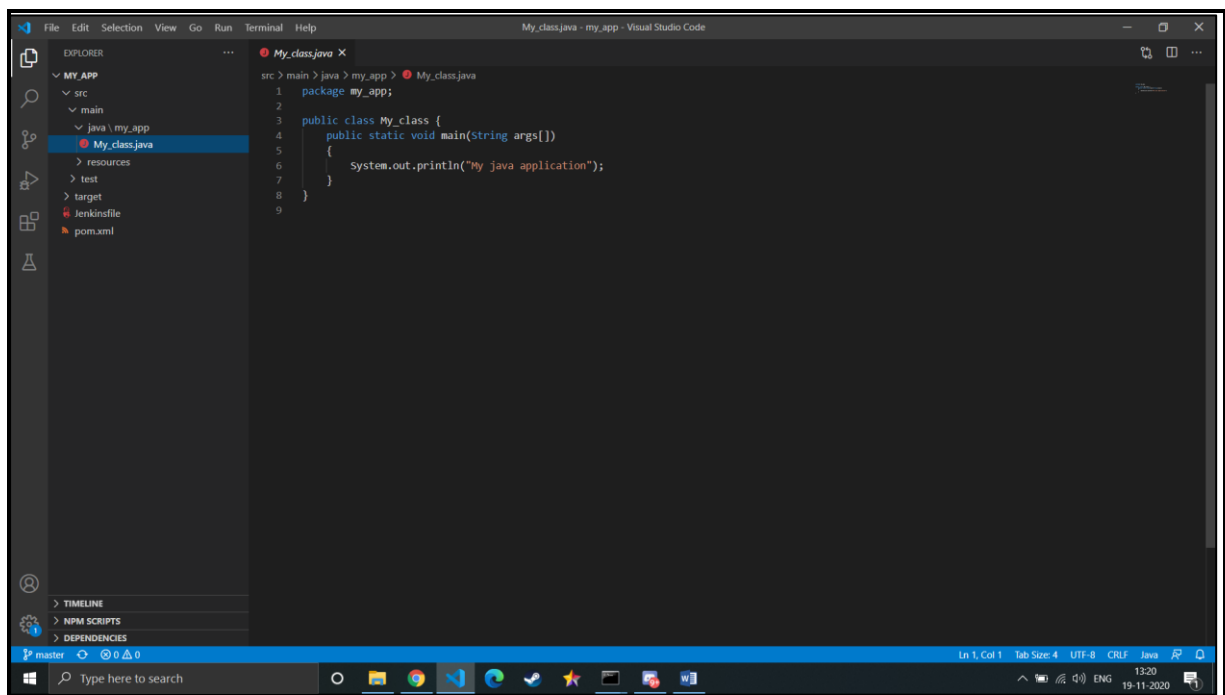
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**Aim:** To create a Jenkinsfile Pipeline to generate build and push the generated build on Nexus server using Jenkinsfile on GitHub.

1) Create a maven project using Eclipse or any IDE. Here I have use visual studio code for creating maven project.



2) Now stage, commit and push the project on GitHub from the IDE.

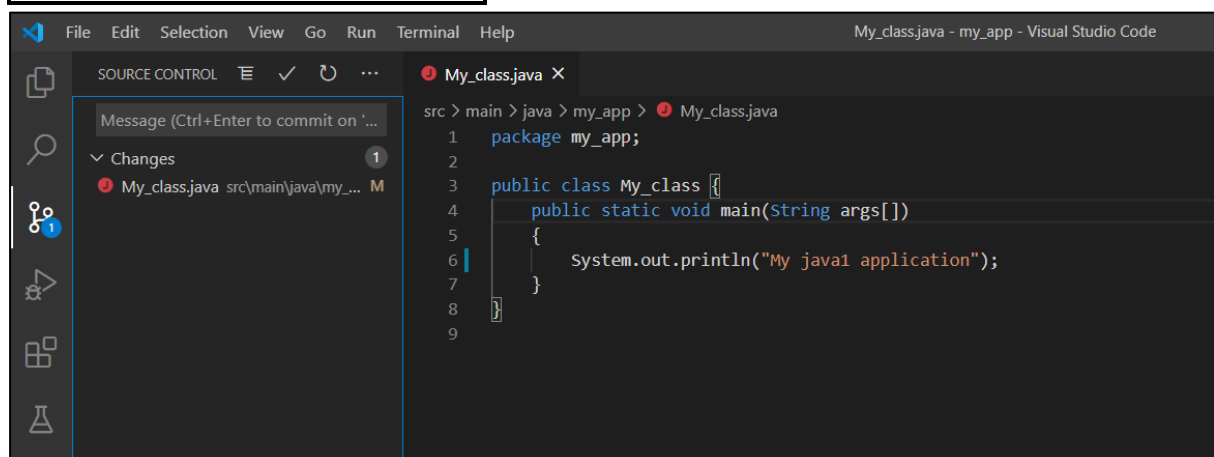
The folder currently open doesn't have a git repository. You can initialize a repository which will enable source control features powered by git.

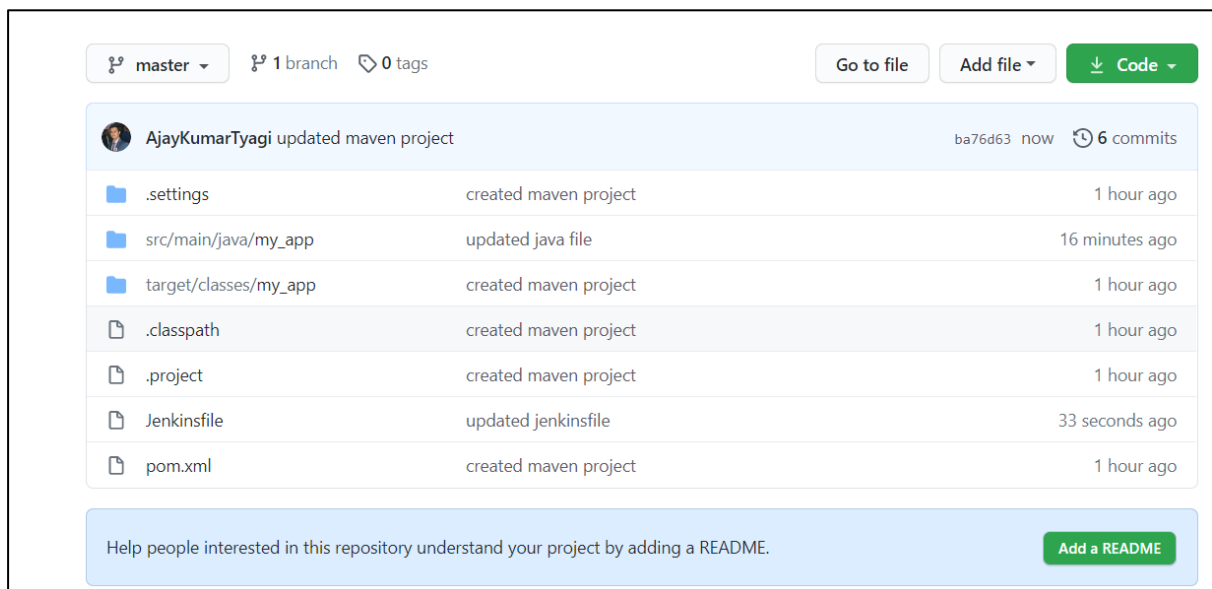
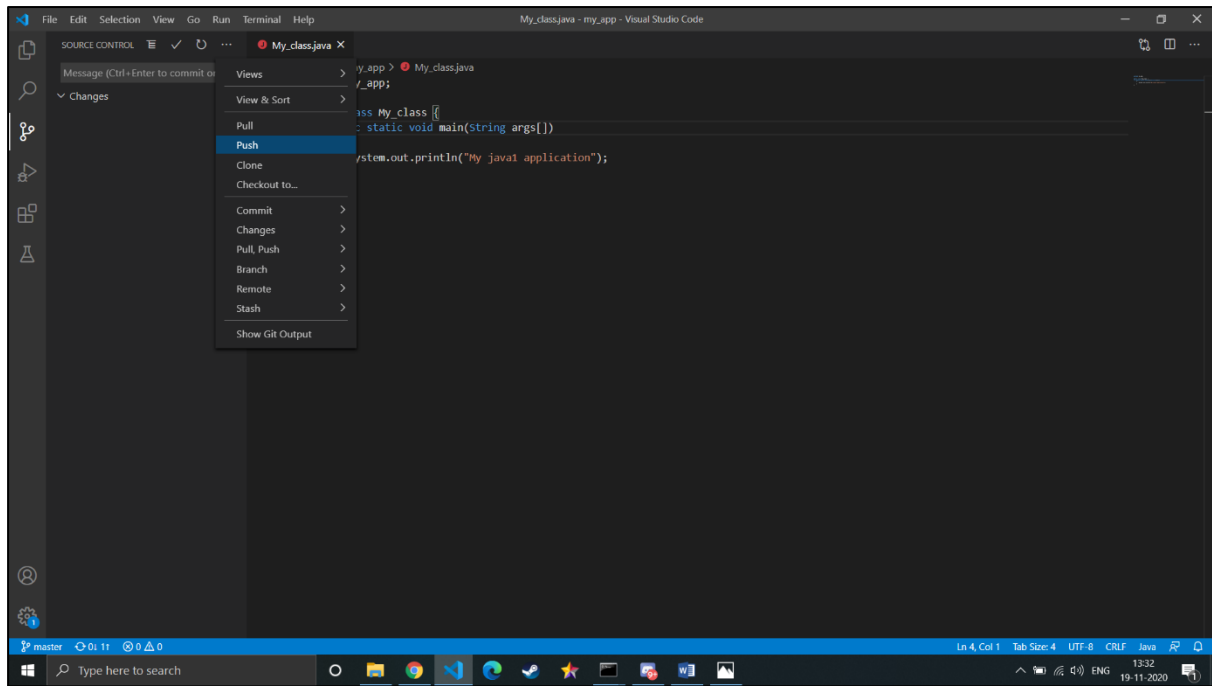
[Initialize Repository](#)

To learn more about how to use git and source control in VS Code [read our docs](#).

You can also directly publish this folder to a GitHub repository. Once published, you'll have access to source control features powered by git and GitHub.

[Publish to GitHub](#)





**3)** Also create a Jenkinsfile to build a pipeline and deploy jar file on nexus. This Jenkinsfile will create three stages in pipeline: Build, Test and deploy. Running this file will first build the project and at last deploy project on Nexus server.

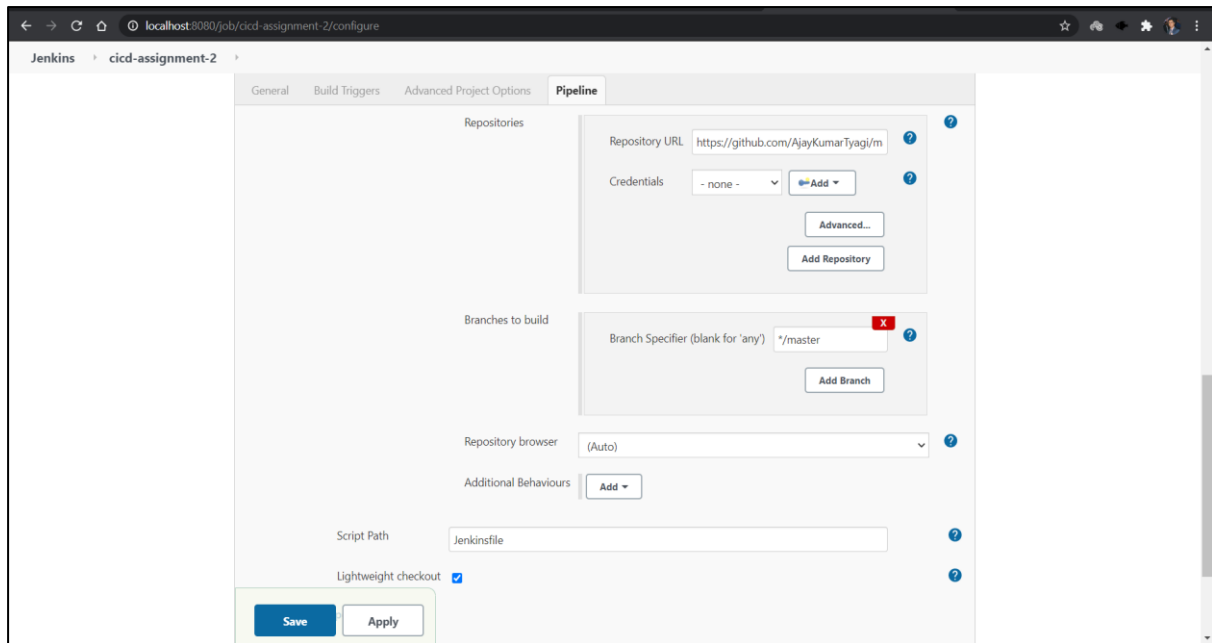
```
21 lines (20 sloc) | 324 Bytes

1  pipeline{
2      agent any
3      stages{
4          stage('Build'){
5              steps{
6                  echo 'Build Stage'
7              }
8          }
9          stage('Test'){
10             steps{
11                 shell('mvn clean')
12             }
13         }
14         stage('deploy'){
15             steps{
16                 shell('mvn deploy')
17             }
18         }
19     }
20 }
21
```

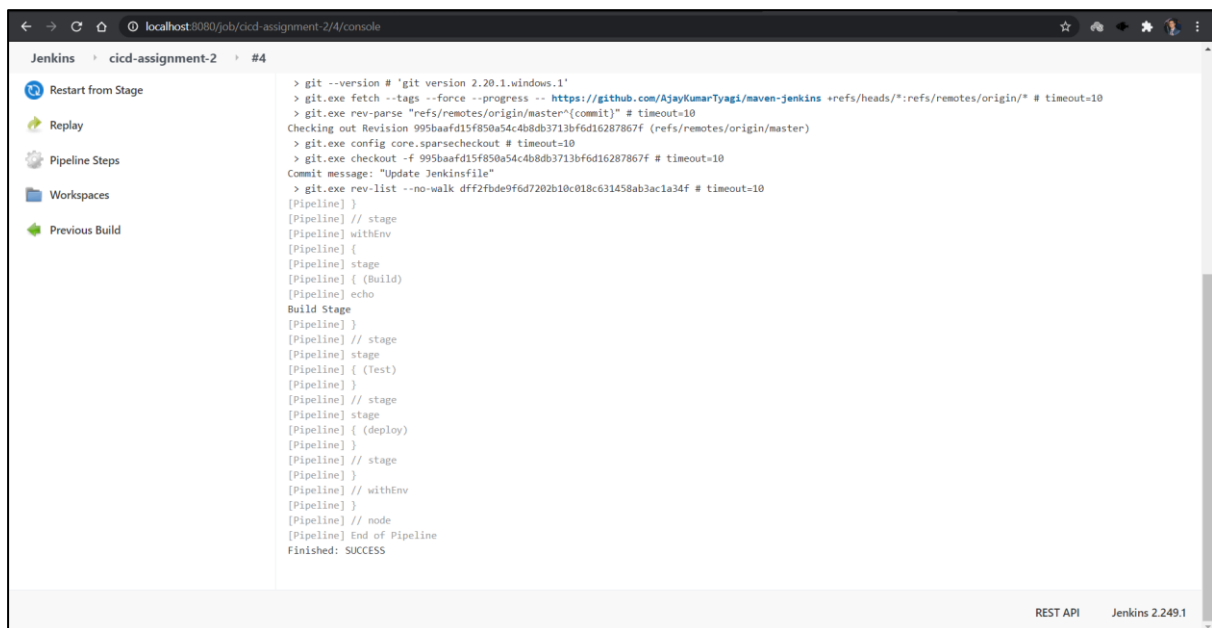
**4)** Also in pom.xml file we have to add details of our Nexus server repository where we want to deploy our project.

```
21     <distributionManagement>
22     <snapshotRepository>
23     <id>cicd-lab</id>
24     <name>cicd-lab</name>
25     <url>http://localhost:8081/repository/cicd-lab</url>
26     </snapshotRepository>
27     </distributionManagement>
28
```

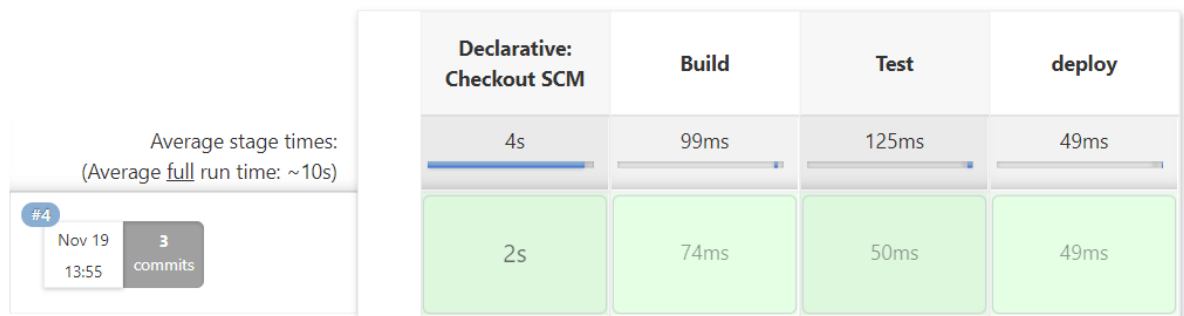
**5)** Now in Jenkins create a Pipeline job. Here give GitHub repository url and Jenkinsfile location.



6) On successful run of this job we can see the following output.



## Stage View



7) At last, on Nexus server we can verify that our project is successfully deployed.

