



## **CI-CD Final Exam**

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**COURSE** – B. Tech CSE- DevOps Batch 1

**SUBJECT** – Continuous Integration and Deployment

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**Submitted To:**

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# Experiment for demonstrating creation of a simple Jenkins pipeline using Jenkinsfile and creation of build using it

## Jenkinsfile code:

```
1  pipeline{
2    agent any
3    stages{
4      stage('Clean'){
5        steps{
6          echo 'Clean Stage'
7          bat 'mvn -f C:/Users/ASUS/.jenkins/workspace/Final_Lab_exp/my-app clean'
8        }
9      }
10     stage('Test'){
11       steps{
12         echo 'Testing stage'
13         bat 'mvn -f C:/Users/ASUS/.jenkins/workspace/Final_Lab_exp/my-app test'
14       }
15     }
16     stage('Install'){
17       steps{
18         bat 'mvn -f C:/Users/ASUS/.jenkins/workspace/Final_Lab_exp/my-app install'
19       }
20     }
21   }
22 }
```

## Jenkins pipeline Setup:

The screenshot shows the Jenkins Pipeline configuration page with the 'Advanced Project Options' tab selected. The 'SCM' section is set to 'Git'. The 'Repository URL' is 'https://github.com/Divyaansh313/maven-jenkins.git'. The 'Branches to build' section has a 'Branch Specifier (blank for \'any\')' set to '\*/master'. The 'Script Path' is 'Jenkinsfile'. The 'Lightweight checkout' checkbox is checked. The 'Save' and 'Apply' buttons are at the bottom.

General	Build Triggers	Advanced Project Options	Pipeline
SCM			
Git			
Repositories			
Repository URL: https://github.com/Divyaansh313/maven-jenkins.git			
Credentials: - none - Add			
Advanced...			
Add Repository			
Branches to build			
Branch Specifier (blank for 'any'): */master			
Add Branch			
Repository browser: (Auto)			
Additional Behaviours: Add			
Script Path: Jenkinsfile			
Lightweight checkout: <input checked="" type="checkbox"/>			
Pipeline Syntax			
Save Apply			

Output:

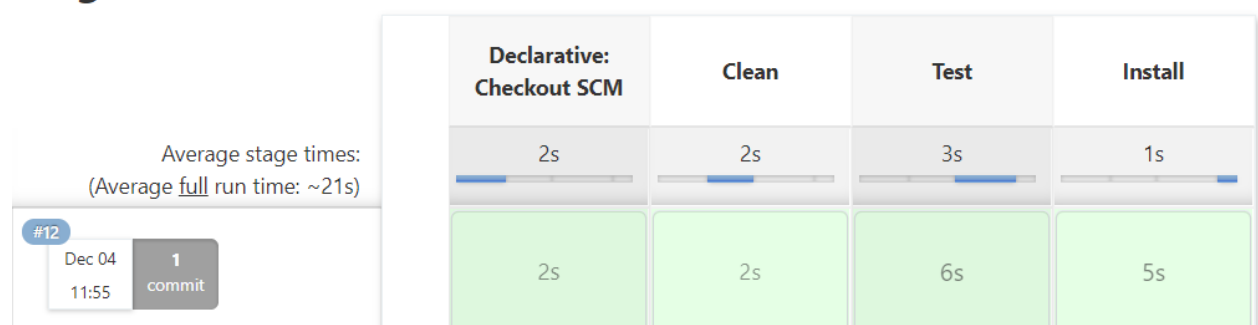
Successful pipeline:

## Pipeline Final\_Lab\_exp



Recent Changes

### Stage View



Console Output:



### Console Output

```
Started by user Divyaansh Jain
Obtained Jenkinsfile from git https://github.com/Divyaansh313/maven-jenkins.git
Running in Durability level: MAX_SURVIVABILITY
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\Users\ASUS\.jenkins\workspace\Final_Lab_exp
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: git.exe
No credentials specified
> git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/Divyaansh313/maven-jenkins.git # timeout=10
Fetching upstream changes from https://github.com/Divyaansh313/maven-jenkins.git
> git.exe --version # timeout=10
> git --version # 'git version 2.24.0.windows.2'
> git.exe fetch --tags --force --progress -- https://github.com/Divyaansh313/maven-jenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10

[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ my-app ---
[INFO] Building jar: C:\Users\ASUS\.jenkins\workspace\Final_Lab_exp\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ my-app ---
[INFO] Installing C:\Users\ASUS\.jenkins\workspace\Final_Lab_exp\my-app\target\my-app-1.0-SNAPSHOT.jar to C:\Users\ASUS\.m2\repository\com\mycompany\app\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.jar
[INFO] Installing C:\Users\ASUS\.jenkins\workspace\Final_Lab_exp\my-app\pom.xml to C:\Users\ASUS\.m2\repository\com\mycompany\app\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 3.809 s
[INFO] Finished at: 2020-12-04T11:56:04+05:30
[INFO]
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```