**LAB PROGRAM-08 (PART A)**

1. mvn archetype:generate -DgroupId=com.example -DartifactId=demo -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

2. cd demo

3. git init

4. git add .

5. git commit -m "Initial commit"

6. Go to your github account create one repository name “program8”

7. (On your github account you’ll get one url) copy and paste this command from there-

git remote add origin <your-repo-url>

8. git push -u origin main

{ if error comes the check

1. git status

If it shows you are in master branch ,change it to main by using command

1. git branch -M main

c) git push -u origin main }

9. Open jenkins (in your browser run this - <http://localhost:8080>)

If this does not run directly on your browser the,

Go to command prompt(open in administrator)

Type- java -jar (path of jenkin.war from your c drive)

10. Open jenkins provide your username and password

Go to dashboard :

1. Click on new item
2. Enter a project name (MavenCI)
3. Select **“Pipeline” Click OK**
4. Scroll Down to the **Pipeline** Section
5. Set the Definition to **Pipeline Script**
6. Inside that box ,put this code-

pipeline {

agent any

tools {

maven 'Apache Maven 3.9.9'

}

stages {

stage('Checkout') {

steps {

git branch: 'main', url:'<https://github.com/Sakshi-03012004/program8.git>'

}

}

stage('Build') {

steps {

bat ' mvn clean install '

}

}

stage('Archive Artifacts') {

steps {

archiveArtifacts artifacts: 'target/\*.jar', allowEmptyArchive: true

}

}

}

}

g)Click Save (at the bottom)

h) Click Build Now

i) Console Output.(it should show Finished: SUCCESS)

**PART-B**

Open ubuntu

1. vi hosts.ini

Inside that write code -

[local]

localhost ansible\_connection=local

1. Vi deploy.yml

Inside that write code -

* name: Deploy artifact locally

hosts: local

tasks:

- name: Copy JAR file from Jenkins to deploy directory

copy:

src:/mnt/c/Users/ASUS/.jenkins/workspace/mavenCI/target/demo-

1.0-SNAPSHOT.jar

dest: /mnt/c/Users/ASUS/deployed/demo-1.0-SNAPSHOT.jar

To find the source and destination -

- Open Jenkins.

- Go to your Maven job → Build History → Workspace.

- Navigate to the **target/** folder and confirm the **JAR** file exists

- then in the **src path** provide your project name which you have given in your jenkin project (example-mavenCI)

- Go to your system directory (example=asus) and create a folder named **deployed** **manually if it does not exist.**

copy the demo-1.0-SNAPSHOT.jar file into it.

/mnt/ is used because as the forward slash does not work in the unix system

1. ansible-playbook -i hosts.ini deploy.yml
2. To check whether it exist ,run:

ls /mnt/c/Users/ASUS/deployed

It should give-

demo-1.0-SNAPSHOT.jar