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></your-repo-url>
8. git push -u origin main
{ if error comes the check
a) git status
If it shows you are in master branch ,change it to main by using command
b) 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 : a) Click on new item
a) Onor on new item
b) Enter a project name (MavenCI)

- c) Select "Pipeline" Click OK
- d) Scroll Down to the Pipeline Section
- e) Set the Definition to Pipeline Script
- f) 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

Vi deploy.yml Inside that write code -

To find the source and destination -

- Open Jenkins.
- Go to your Maven job \rightarrow Build History \rightarrow 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

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

Is /mnt/c/Users/ASUS/deployed
It should givedemo-1.0-SNAPSHOT.jar