4. Demonstrate CI/CD in Jenkins. Consider 3 html files in Github repository and write a scripted pipeline to deploy on Xampp server.

→1.Make sure your system has all the necessary softwares installed

2.If not,then install xampp,Jenkins,and git bash

3.Create a folder in Desktop, then right-click inside that folder and select **Open Git Bash here**

4.After that,run the following git commands:

   - git init

   - touch index.html

   - (similarly make 2 more files using the same command)

   - cat >> index.html(after pressing enter you will get on the next line)

   - then copy and paste this code:

<!DOCTYPE html>

<html>

<head>

   <title>Index Page</title>

</head>

<body>

   <h1>Welcome to the Index Page</h1>

</body>

</html>

Then press enter and then CTRL+C

-(similarly do the same for the other 2 files)

-now make a new repository in github

-git status

-git add index.html index2.html index3.html (index2 and index3 may be different for you ,just add the 3 files)

-git commit -m "Added html files"

-git remote add origin (add your github repo link here)

-git push -u origin master

5.After that open Xampp Control panel on windows and click start next to Apache

6.Open Jenkins (default port is 8080) with the link localhost:8080/ in your browser

7. Go to Manage Jenkins>Credentials>and select system

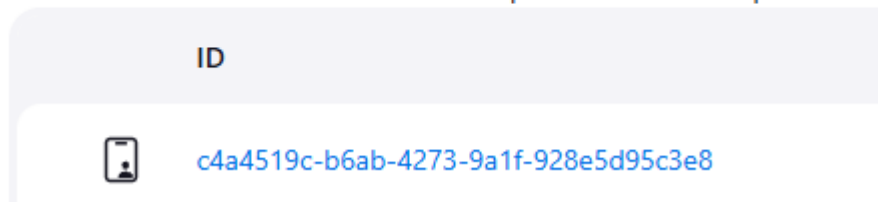8. Create new credentials add username and password and create

9.Now go back and copy the ID

It looks like this:

Global credentials (unrestricted)

Credentials that should be available irrespective of domain specificatior

ID

c4a4519c-b6ab-4273-9a1f-928e5d95c3e8

10.Now go back to Dashboard

11.Select New Item

12. Enter any name and select Pipeline and click on OK

13.Inside the configurations,scroll down until you reach the pipeline section

14.Select Pipeline Script in it:

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

15.Paste the following script in the Script area:

```
node {
   stage('Clone Repository') {
      echo 'Cloning the GitHub repository...'
      git credentialsId: 'YOUR_CREDENTIAL_ID', url: 'https://github.com/YOUR_USERNAME/html-deploy-demo.git'
   }

   stage('Build/Prepare') {
      echo 'Build step (can include minifying HTML if needed)...'
      // Optional: Add processing here
   }

   stage('Deploy to XAMPP') {
   echo 'Deploying to XAMPP htdocs folder...'
   def xamppPath = 'C:\\xampp\\htdocs\\html-site'

   bat """
   if not exist "${xamppPath}" mkdir "${xamppPath}"
   xcopy /E /Y *.html "${xamppPath}\\"
   """

   echo 'Deployment complete. Visit http://localhost/html-site/'
}
}
```
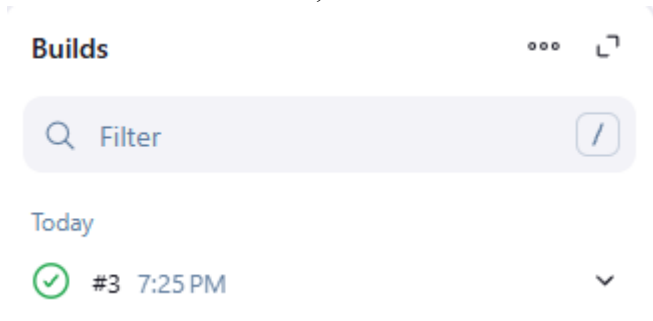
(adjust the indentations as needed)

In this script make sure to change 'YOUR_CREDENTIAL_ID' as the ID we copied earlier and 'https://github.com/YOUR_USERNAME/html-deploy-demo.git as your github repo link

16.Click on Apply and Save

17.Now Click on Build Now

18.Go to the latest build,it should look like this:

19.inside it go to console ouput and scroll down
20.You will see a link :

```
C:index1.html
C:index2.html
3 File(s) copied
[Pipeline] echo
Deployment complete. Visit http://localhost/html-site/
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
```

Copy and paste this link in your browser and you will get your output

21.You will only see your first html file there,to access other 2, just add the name of your other file after the "/" in the link

http://localhost/html-site/index2.html

LIKE THIS

CONGRATS YOU HAVE COMPLETED THE EXPERIMENT