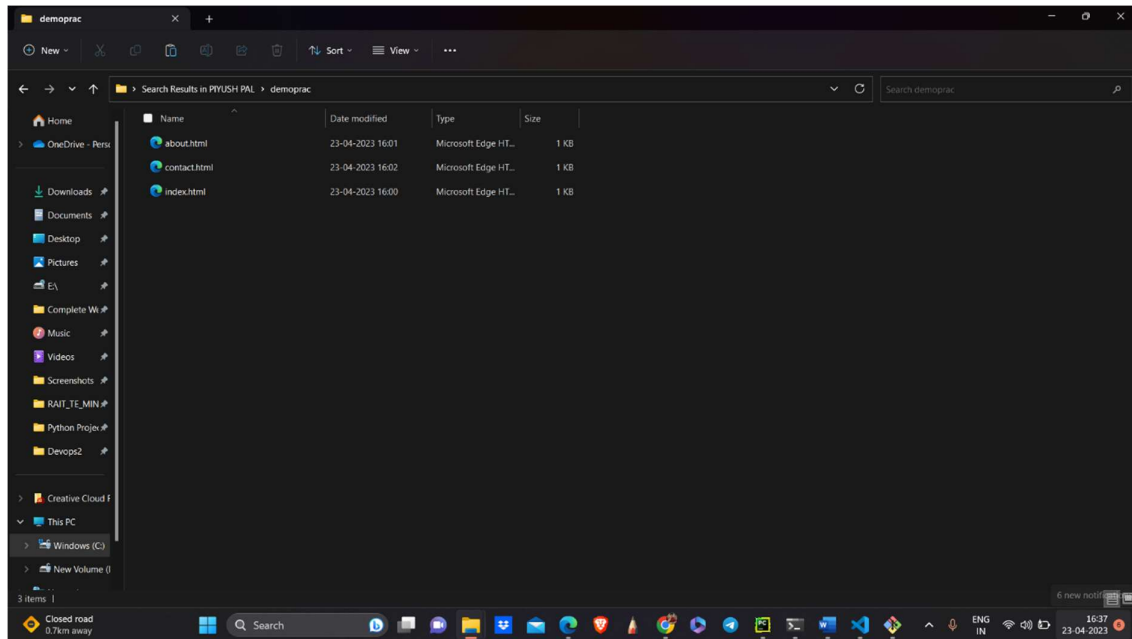


Practical Experiment No. 4

Steps:

Step 1:

1. Create a Folder using mkdir in GitBash. Suppose : demoprcs
2. Command cd demoprcs
3. Navigate the folder and create 3 html files inside it.



4. Create a new repository in your github account. [Here I have created with name Pipeline]

Step 2

- Install Xampp
- Turn on the Apache & Tomcat

Step 3

Give the following commands to push the files into github repository:

```
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (master)
$ git add index.html contact.html about.html

PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (master)
$ git commit -m "Add index.html, contact.html, about.html"
[master (root-commit) 49a3710] Add index.html, contact.html, about.html
3 files changed, 46 insertions(+)
```

```
create mode 100644 about.html
create mode 100644 contact.html
create mode 100644 index.html
```

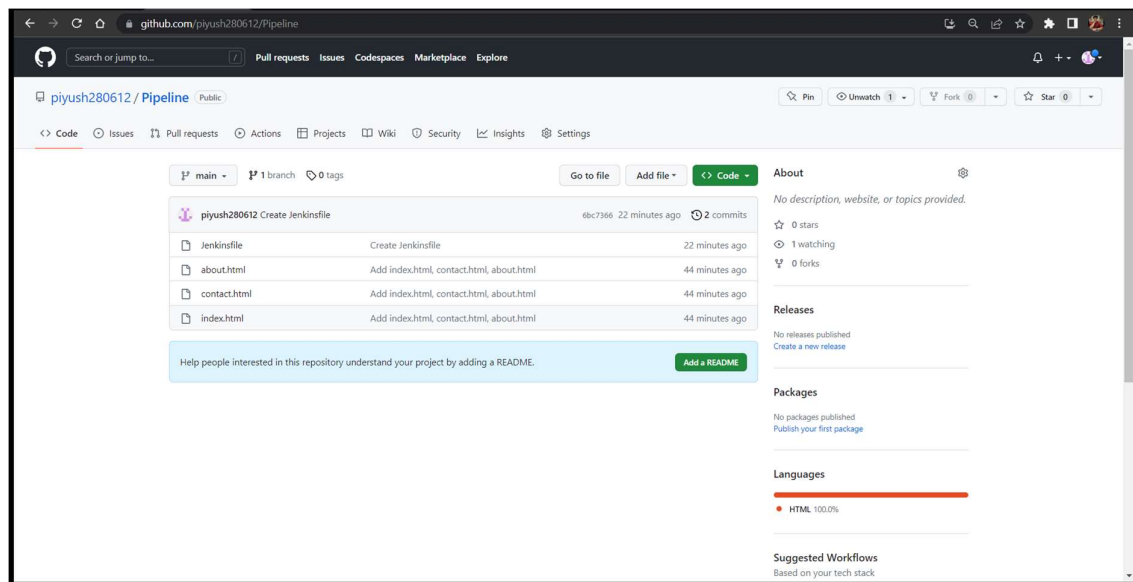
```
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (master)
$ git branch main
```

```
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (master)
$ git checkout main
Switched to branch 'main'
```

```
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (main)
$ git remote add origin https://github.com/piyush280612/Pipeline.git
```

```
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/demoprac (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 454 bytes | 454.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/piyush280612/Pipeline.git
* [new branch]      main -> main
```

Now, the files will be visible in the Pipeline repository of Github



Step 4

1. Open Jenkins.
2. Click on “New Item”
3. Write repository name, here “pipeline” and select as Pipeline. Click Create.
4. In the configuration,
 - a. Tick the Checkbox [GitHub Project]
 - b. Paste the URL of your repository
5. Now scroll down, in the definition
6. Select Pipeline Script and write the following script:

```
pipeline {  
    agent any  
  
    stages {  
        stage('Local Directory Cloning') {  
            steps {  
                bat 'xcopy /S "C:/Users/nilch/demoprcs/Pipeline\" "C:/xampp/htdocs/practical4\" /Y /I'  
            }  
        }  
  
        stage('Confirm') {  
            steps {  
                echo 'Done!'  
            }  
        }  
    }  
}
```

Note:

- In the xcopy command line, Copy your local folder path between the “ ”.
- I have kept the name as practical4, you can change it. While hosting it on localhost, type the same name you kept in script.

7. Check in the “Use Groovy Sandbox”

8. Save the changes.

Step 5

1. Click on the “Build Now”

The output will look like this:

The screenshot shows the Jenkins web interface for a pipeline named 'pipeline'. The 'Build Now' button is highlighted in the left sidebar. The main area displays the 'Stage View' for the 'Local Directory Cloning' stage. The stage is shown as a green box with a duration of 1s. The console output shows the following commands and results:

```
started by user Piyush Pal
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\jenkins\workspace\pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Local Directory Cloning)
[Pipeline] run

C:\ProgramData\jenkins\workspace\pipelinedir\copy /S "C:\Users\nilch\devoprcs\Pipeline" "C:\xampp\htdocs\practical4" /Y
/I
C:\Users\nilch\devoprcs\Pipeline\about.html
C:\Users\nilch\devoprcs\Pipeline\contact.html
C:\Users\nilch\devoprcs\Pipeline\index.html
3 File(s) copied
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Confirm)
[Pipeline] echo
done!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

2. For detailed view click on the #2(here) > console output.

The screenshot shows the Jenkins web interface for a pipeline named 'pipeline'. The 'Console Output' tab is selected in the left sidebar. The main area displays the console output for the 'Local Directory Cloning' stage. The output shows the following commands and results:

```
started by user Piyush Pal
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\jenkins\workspace\pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Local Directory Cloning)
[Pipeline] run

C:\ProgramData\jenkins\workspace\pipelinedir\copy /S "C:\Users\nilch\devoprcs\Pipeline" "C:\xampp\htdocs\practical4" /Y
/I
C:\Users\nilch\devoprcs\Pipeline\about.html
C:\Users\nilch\devoprcs\Pipeline\contact.html
C:\Users\nilch\devoprcs\Pipeline\index.html
3 File(s) copied
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Confirm)
[Pipeline] echo
done!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

3. Lastly, open a new tab and then navigate to the localhost you kept for the file

[Here, localhost/practical4/]

The screenshot shows a web browser window with the address bar set to 'localhost/practical4/'. The page content displays 'Hello World!'. The browser tabs include 'Devops exp exam 2 and 3.pdf', 'pipeline #2 Console [Jenkins]', 'Devops exam exp 4 [1].pdf', and 'First Web Page'.