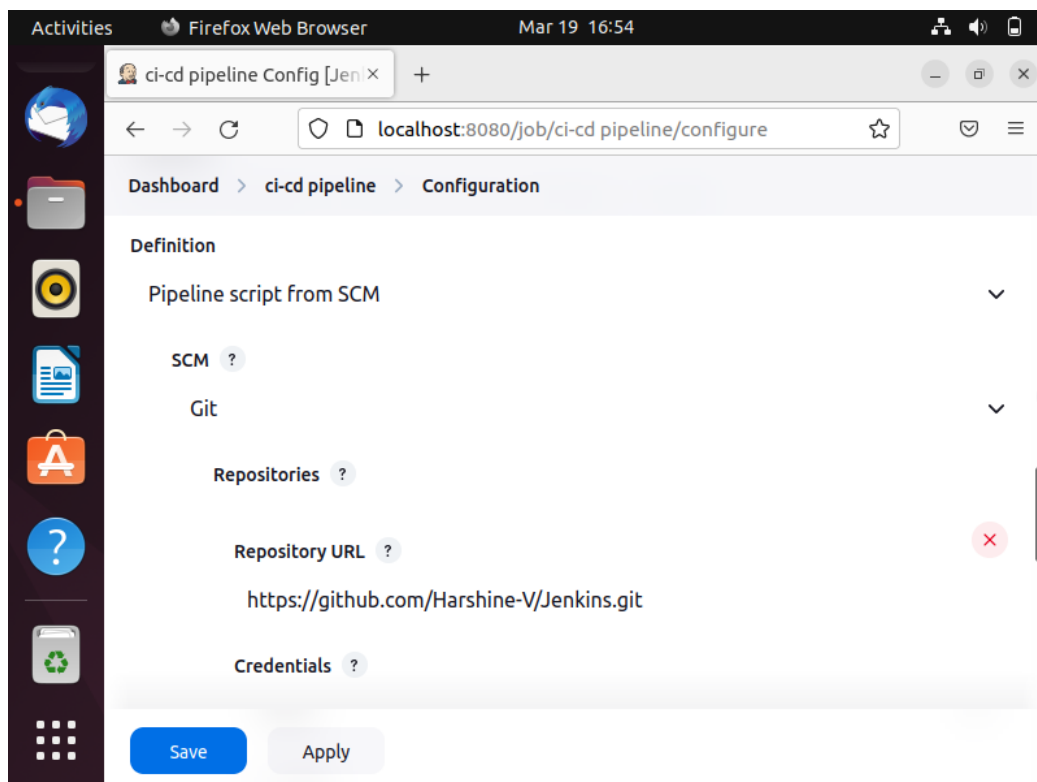


DEVOPS TASK 2

Steps:

1. Open Jenkins and click “New Item”
2. Enter a project name, select “Pipeline” then click OK.
3. In the General tab, scroll down to the “Pipeline” section.
4. Under “Definition” select Pipeline script from SCM.
5. In the SCM field, choose “Git” then enter your GitHub repository URL.



6. Ensure your GitHub repository contains the following files:

app.py (Application code)

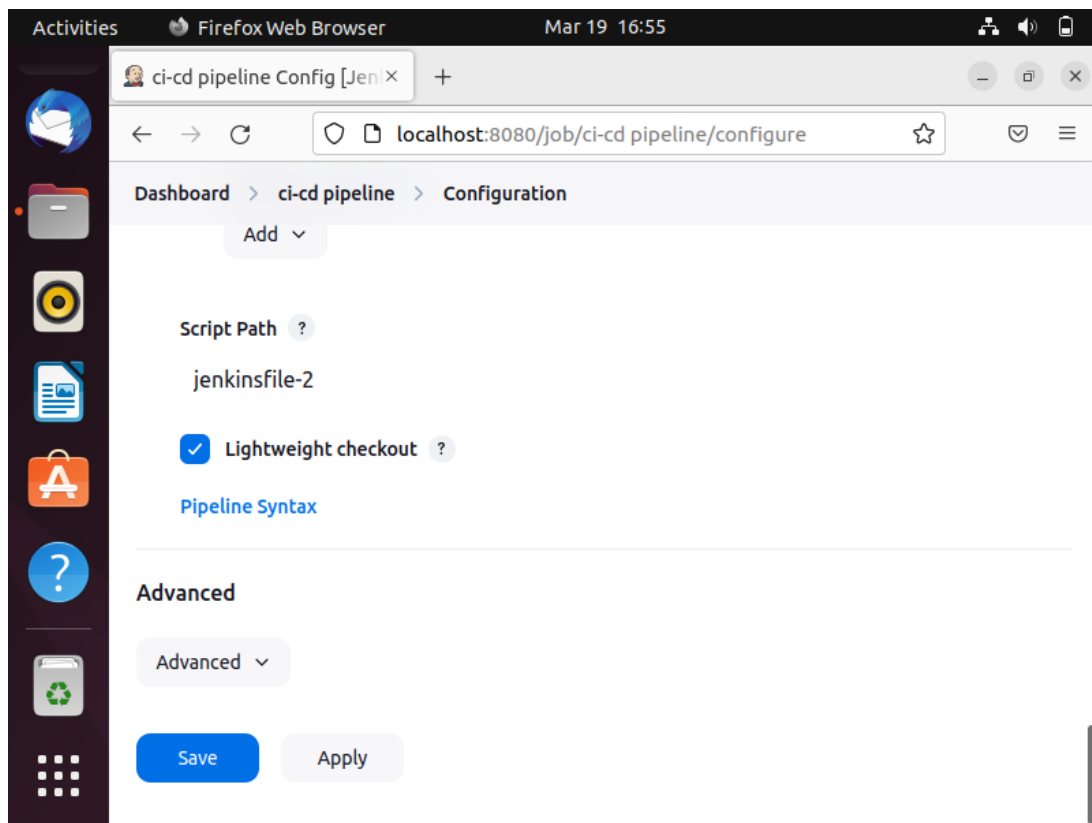
Dockerfile (Instructions to build the Docker image)

docker-compose.yml (For container orchestration)

Jenkinsfile (Defines the pipeline stages)

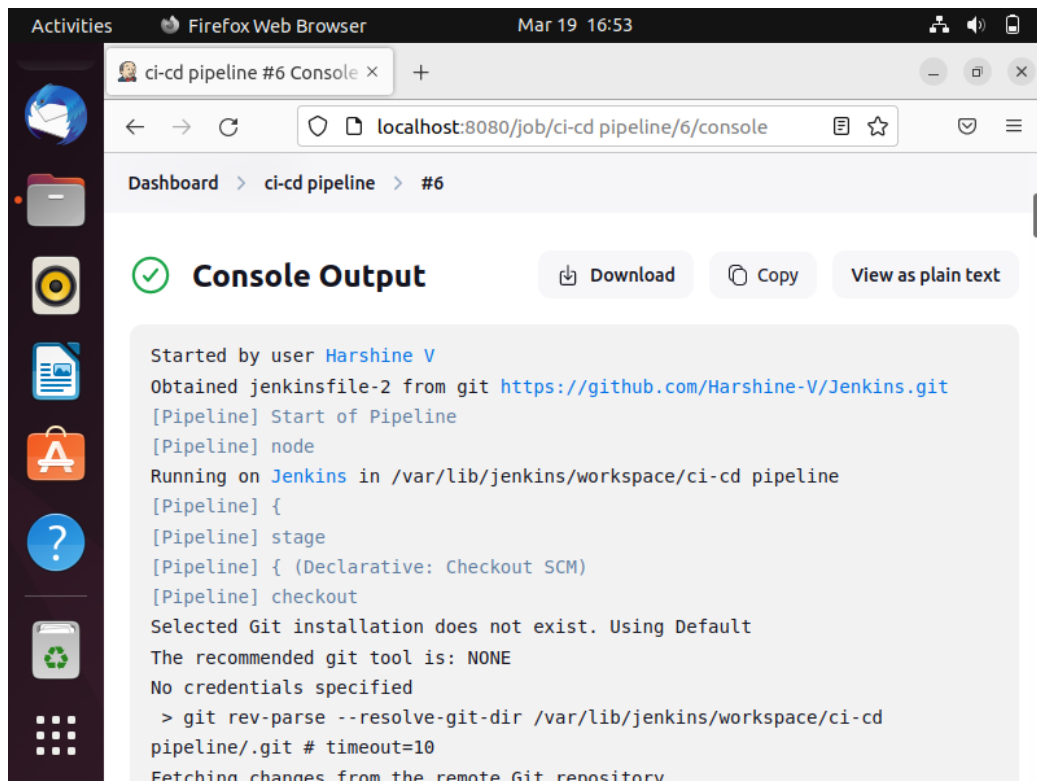
requirements.txt (Dependencies for the application)

7. Click “Save” to apply the configuration.



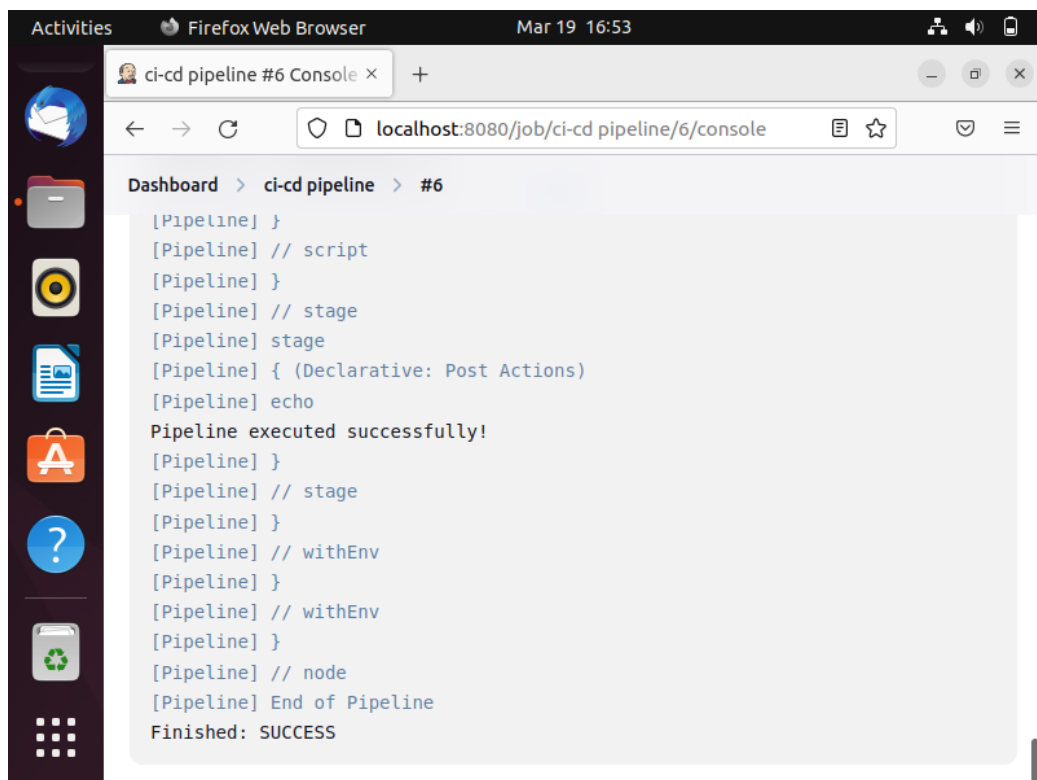
8. On the project page, click “Build Now” to start the job.
9. The build status will appear in the Build History panel (left-side panel).
10. Click on the latest build (#1, #2, etc.) and select “Console Output” to view logs and results.

Output:



A screenshot of a Firefox Web Browser window showing the Jenkins console output for a pipeline named 'ci-cd pipeline #6'. The browser's address bar shows 'localhost:8080/job/ci-cd pipeline/6/console'. The page has a breadcrumb trail 'Dashboard > ci-cd pipeline > #6'. Below the breadcrumb, there is a green checkmark icon followed by the text 'Console Output'. To the right of this text are three buttons: 'Download', 'Copy', and 'View as plain text'. The main content area displays the following text:

```
Started by user Harshine V
Obtained jenkinsfile-2 from git https://github.com/Harshine-V/Jenkins.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/ci-cd pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/ci-cd
pipeline/.git # timeout=10
Fetching changes from the remote Git repository
```



A continuation of the screenshot from the previous block, showing the rest of the Jenkins console output for pipeline #6. The browser window and breadcrumb trail are the same. The main content area displays the following text:

```
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```