Setting Up and Running a Jenkins Pipeline with Git and Maven

This assignment will guide you through setting up a Jenkins pipeline that pulls code from Git, builds it using Maven, and runs inside a Dockerized Jenkins environment.

Step 1: Clone the Repository

1. Open Command Prompt and navigate to a directory where you want to clone the repository.
2. Run the following command to clone the repository:

   git clone https://github.com/satheesh1022005/DemoRepos.git
3. Navigate into the cloned directory:

   cd DemoRepos

Step 2: Access Jenkins Inside Docker

1. Run the following command to enter the Jenkins container:

   docker exec -it jenkins-blueocean /bin/bash
2. Navigate to the cloned repository inside the container:

   cd DemoRepos

Step 3: Install Maven

1. Inside the Jenkins container, install Maven by running:

   sudo apt-get install -y maven

This will install Maven along with its dependencies.

mvn -version

This command should return the Maven version installed on the system.

Step 4: Run the Jenkins Pipeline

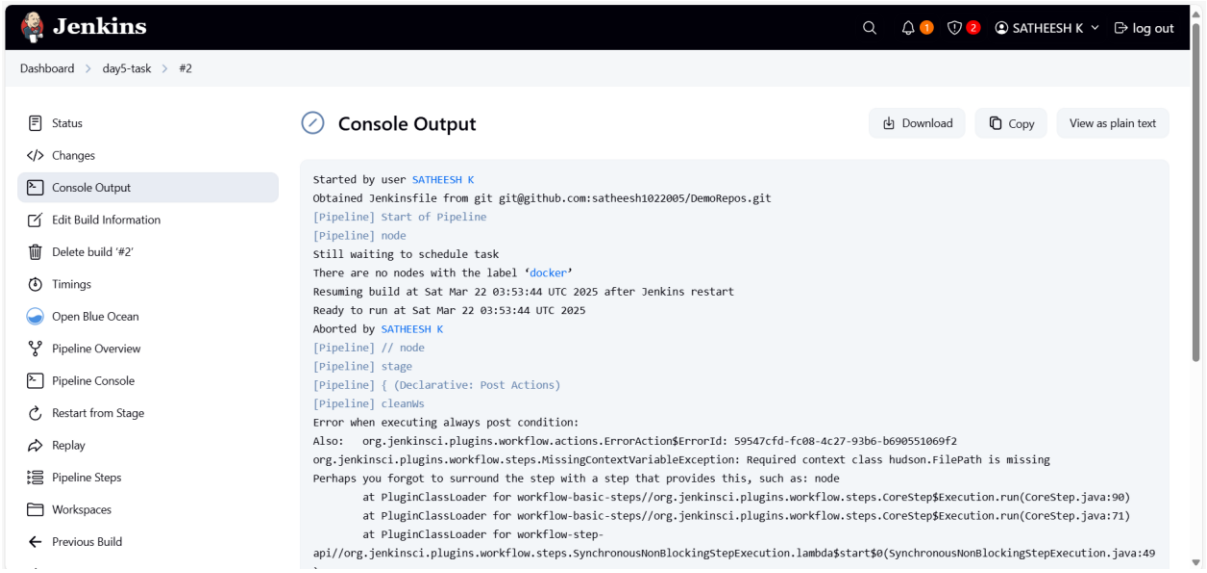
1. Open Jenkins in your web browser.
2. Click on New Item.

3. Enter a name for your pipeline, e.g., task-5.
4. Select Pipeline and click OK.
5. Open the newly created pipeline (task-5).
6. Click on Configure.
7. Under the Pipeline section, select Pipeline script from SCM.
8. Choose Git as the Source Code Management (SCM) option.
9. Enter your Git repository URL:

   https://github.com/satheesh1022005/DemoRepos.git
10. Click Save.
11. Click Build Now to start the pipeline.

Step 5: Verify the Build Output

1. Monitor the build progress under Build History in Jenkins.
2. If the build is successful, verify the output.
3. If the build fails, check the logs in Console Output to find errors and fix them.



```
[m[1;34mINFO[m] m[1;32mBUILD SUCCESSm[m
[m[1;34mINFO[m] m[1m------------------------------------------------------------------------m[m
[m[1;34mINFO[m] Total time:  01:59 min
[m[1;34mINFO[m] Finished at: 2025-03-21T09:20:17Z
[m[1;34mINFO[m] m[1m------------------------------------------------------------------------m[m
m[0mm[0m
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] cleanWs
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```