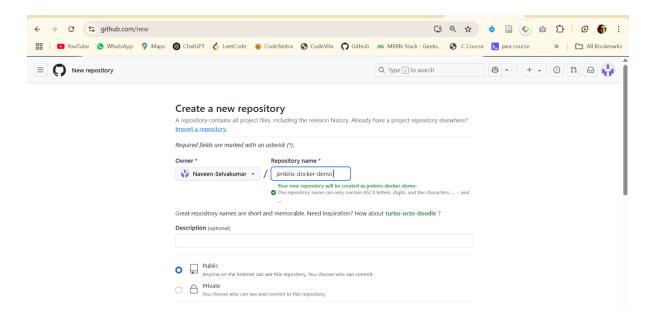
DEVOPS TRAINING

DAY 2-Naveen-S

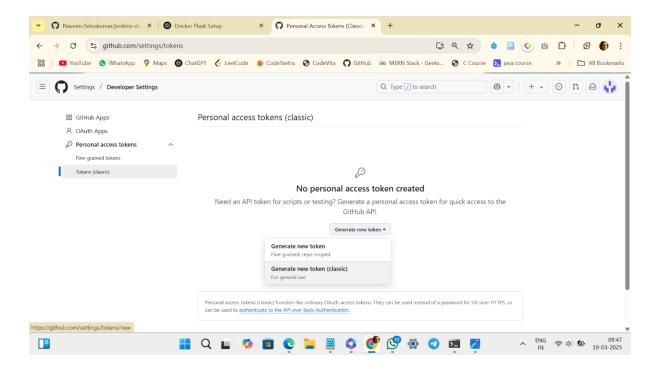
Step 1: create repository in github

Go to GitHub and create a new repository.



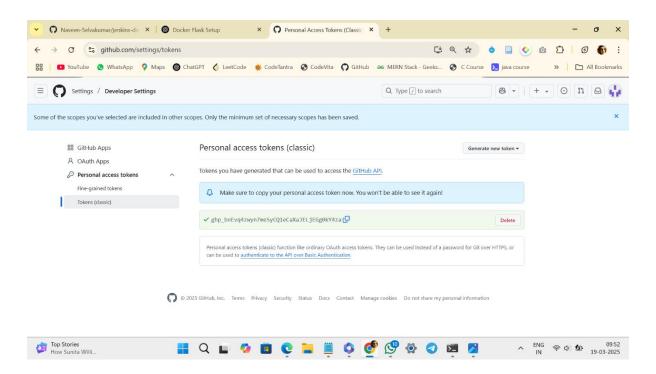
Step 2: go to developer settings

- Navigate to Settings > Developer Settings > Personal Access Tokens
- Click Generate New Token (Classic)
- Copy and store the token securely



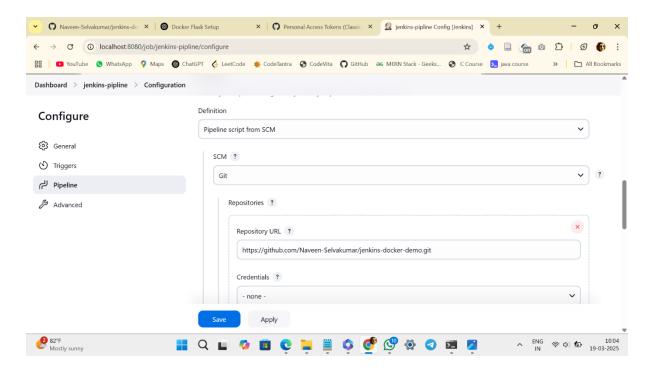
Step 3: generate and copy the token (classic)

- · Open Jenkins
- Click New Item > Pipeline
- In Configuration, add the GitHub repository URL
- Save the configuration

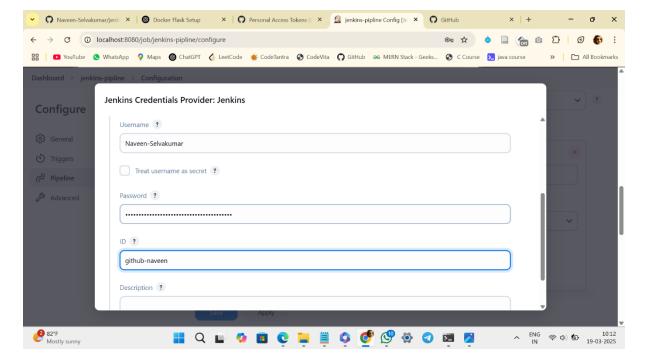


Step 4: open Jenkins and create new item and select pipeline in that go to configuration add github repository url into it.

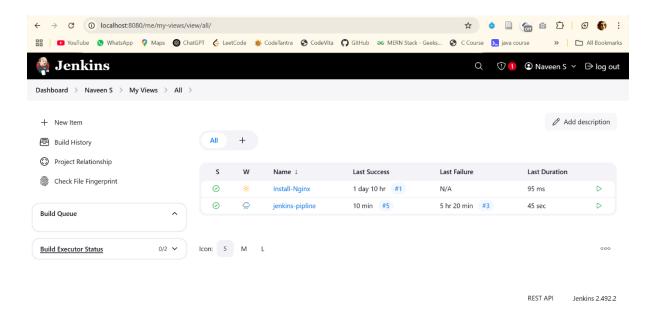
Check the **Jenkins Status Page** to confirm that the setup is successful



Step 5: in Jenkins configure save it



Step 6: verify the status page



Step 7: clone the git repository

git clone https://github.com/your-username/your-repository.git

cd your-repository

```
| Navesn@LAPTOP-MRSRNMIC:~/docker-python-app$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
navesn@LAPTOP-MRSRNMIC:~/docker-python-app$ sudo systemctl start jenkins
navesn@LAPTOP-MRSRNMIC://docker-python-app$ sudo systemctl start jenkins
navesn@LAPTOP-MRSRNMIC://docker-python-app$ sudo systemctl starts jenkins
special loaded (/usr/lib/systemd/system)(spinkins.service
Loaded: loaded (/usr/lib/systemd/system)(spinkins.service; enabled)
Active: active (running) since Wed 2025-03-19 03:33:44 UTC; 51min ago
Main PID: 166 (java)
Tasks: 61 (Limit: 4574)
Memory 439.9 M ()
CGroup: /system.slice/jenkins.service
L166 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPc
Mar 19 03:33:42 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:42.864+0000 [id=41] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:42 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:42.860+0000 [id=41] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.193+0000 [id=61] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.193+0000 [id=60] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.193+0000 [id=60] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44, 204+0000 [id=60] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44, 204+0000 [id=60] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44, 204+0000 [id=60] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44, 204+0000 [id=80] INFO jenkins. InitReactorRunner$18corp
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:
```

Step 8: using cd add the repository into it git add .

git commit -m "Initial commit"

git push origin main

```
Loaded: Loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)

Active: active (running) since Wed 2025-03-19 03:33:44 UTC; 51min ago

Main PID: 166 (java)

Tasks: 61 (linit: 4574)

Hemory 499.9M ()

CGroup: /system.slice/jenkins.service

_166 /usr/bin/java -ojava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPo

Mar 19 03:33:42 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:42.880+0000 [id=41] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:42 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:42.880+0000 [id=61] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:43 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.103+0000 [id=41] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.103+0000 [id=67] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.265+0000 [id=67] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.265+0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.265+0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.240000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.240000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.244-0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.244-0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.244-0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.244-0000 [id=50] INFO jenkins.InitReactorRunner$l#on*
Mar 19 03:33:44 LAPTOP-MRSRNMIC jenkins[166]: 2025-03-19 03:33:44.254-0000 [id=50] INFO jenkins.InitReactorRunn
```

Step 9: using git push command to push all the files into github

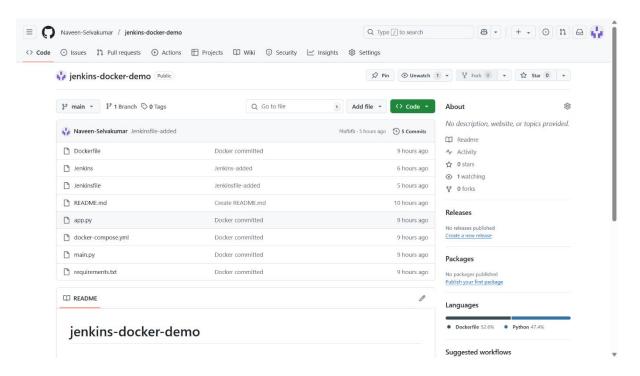
git push https://Naveen-

Selvakumar: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@github.com/Naveen-Selvakumar/jenkins-docker-demo.git

```
Remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
nawcendLAPTOP-MRSRNW1C:-/docker-python-app$ ls
Dockerfile app. py docker-compose.yml jenkins-docker-demo main.py requirements.txt
navcendLAPTOP-MRSRNW1C:-/docker-python-app$ ls
Dockerfile app. py docker-compose.yml jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app$ cd jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app$ dd jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; and nain.py requirements.txt

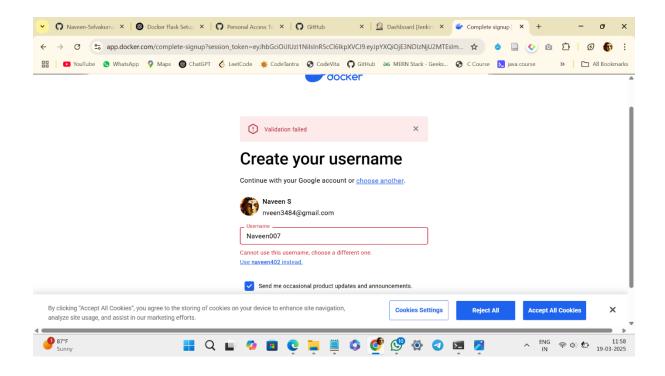
Dockerfile README.md app. py docker-compose.yml main.py requirements.txt
navcendLAPTOP-MRSRNW1C:-/docker-python-app; dd jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; dd jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; dd jenkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; delians-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; delians-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; denkins-docker-demo
navcendLAPTOP-MRSRNW1C:-/docker-python-app; denkins-docker-demo
ls
navcendLAPTOP-MRSRW1C:-docker-demo
ls
navcendLAPTOP-MRSRW1C:-docker-python-app; denkins-dock
```

Step 10: check the docker all the files are uploaded in the github repository



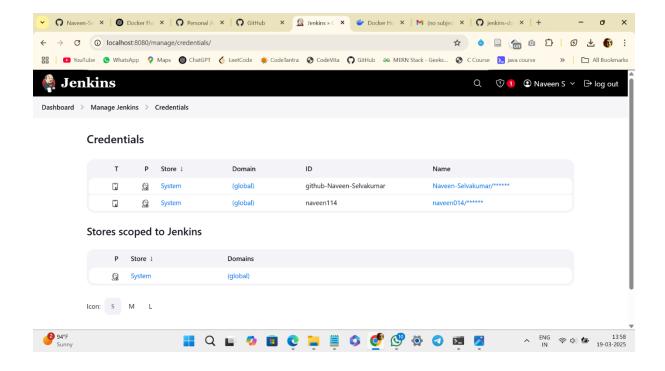
Step 11: go to the docker and login in docker login

Enter your **Docker Hub username** and **password/token** when prompted

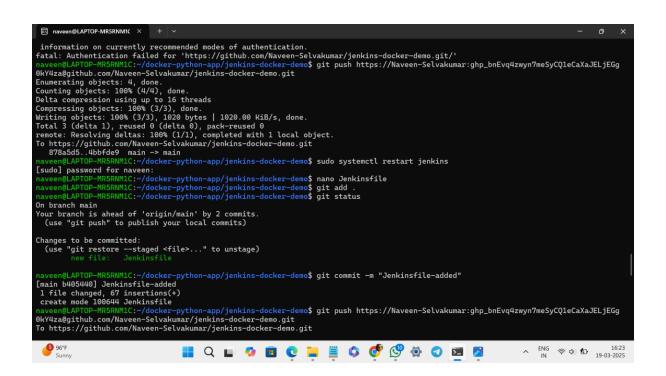


Step 12: in jenkins copy the global credentials and change in the jenkins file

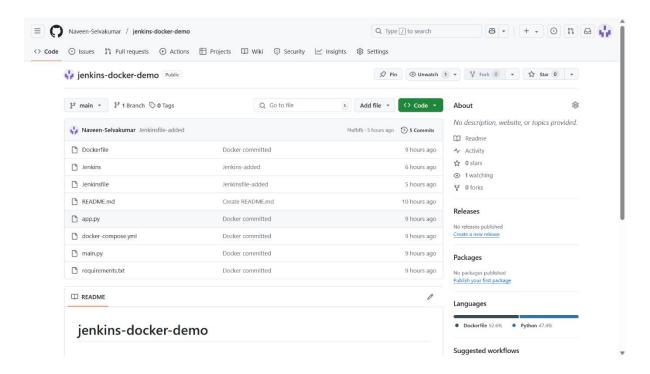
sudo usermod -aG docker jenkins sudo systemctl restart jenkins



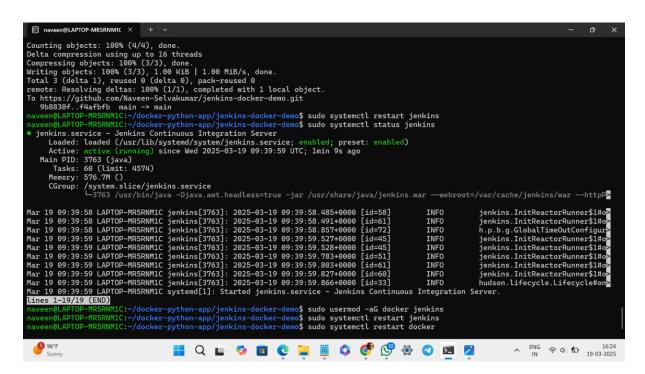
Step 13: commit the jenkinsfile into github



Step 14: verify the jenkins file is pushed in the github

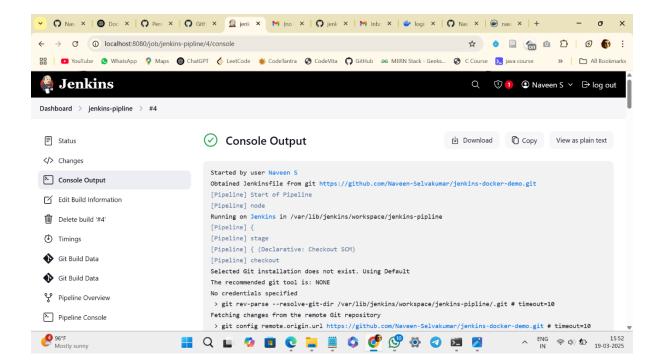


Step 15: using "sudo usermod –aG docker jenkins" and restart the jenkins

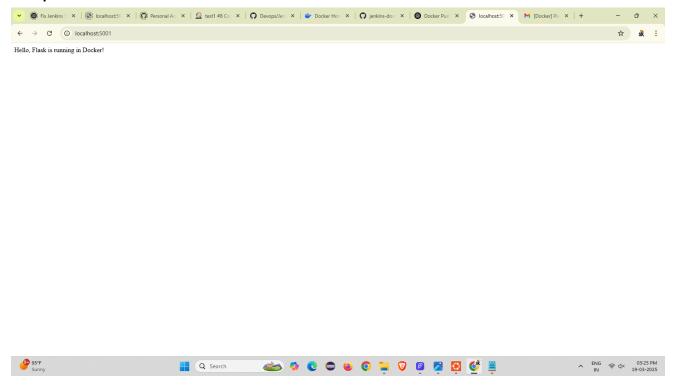


Step 16: build the item and check the output in console output

- In Jenkins, click Build Now
- Monitor the Console Output



Step 17: run the localhost:5001



Step 18: check the image repository in docker

