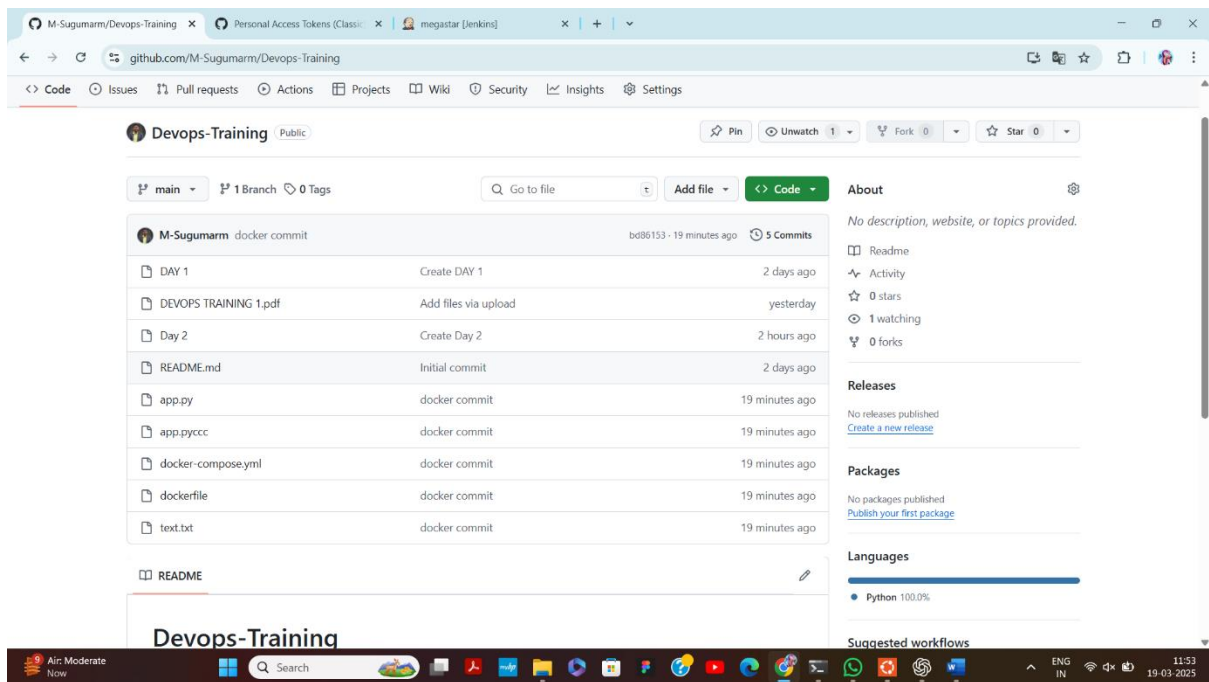


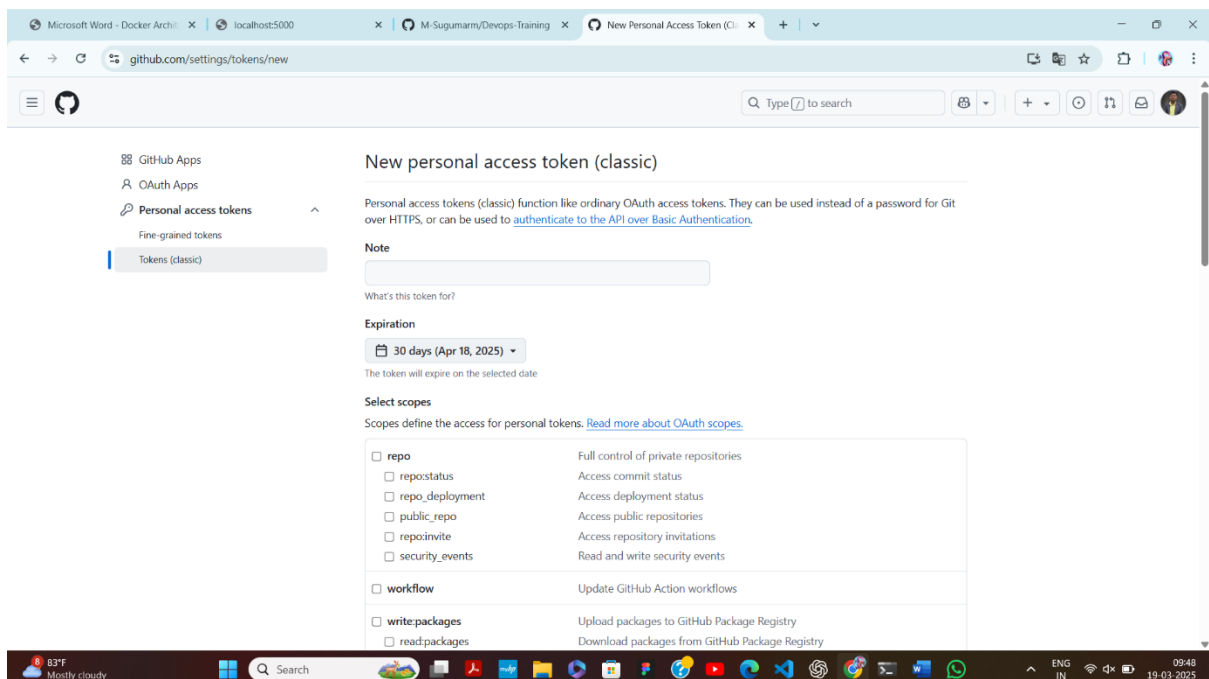
DEVOPS TRAINING

DAY 2

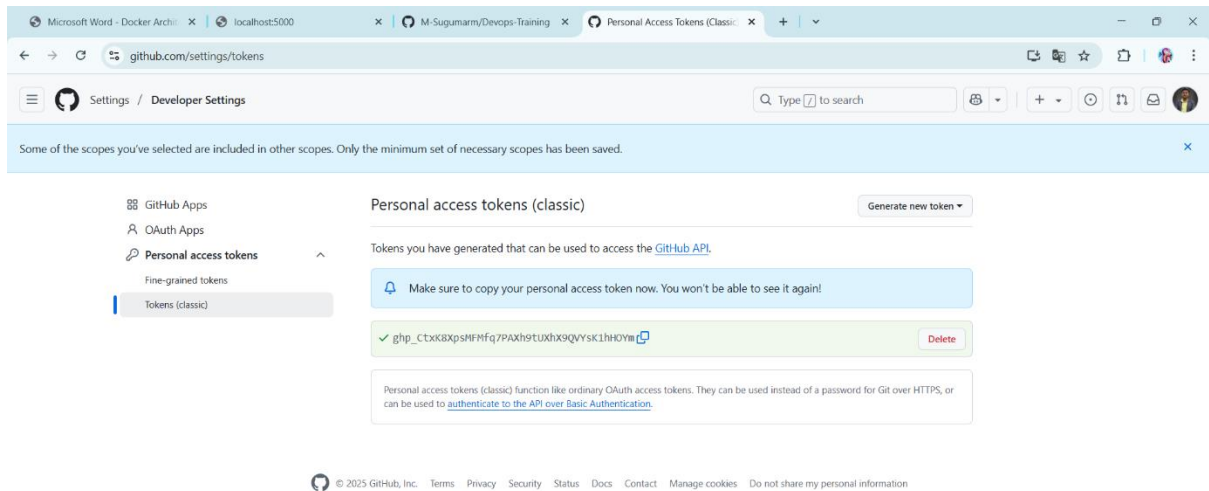
Step 1: create repository in github



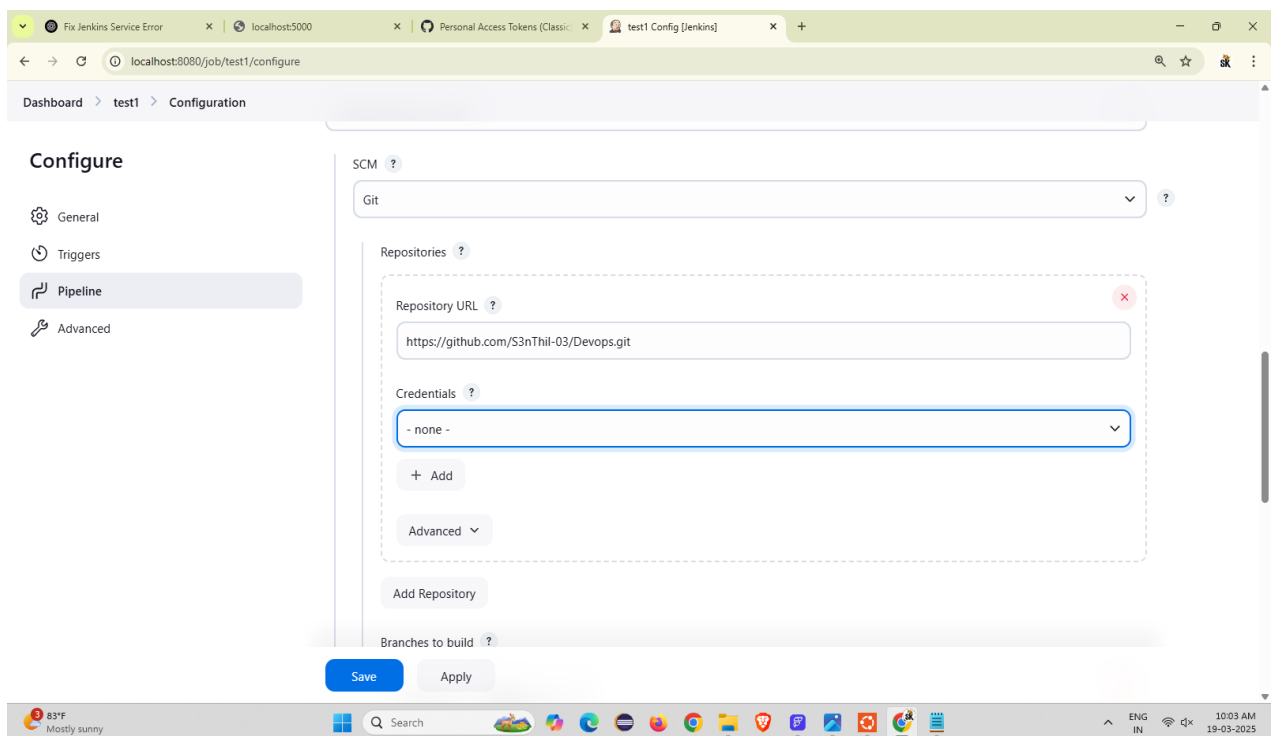
Step 2: go to developer settings



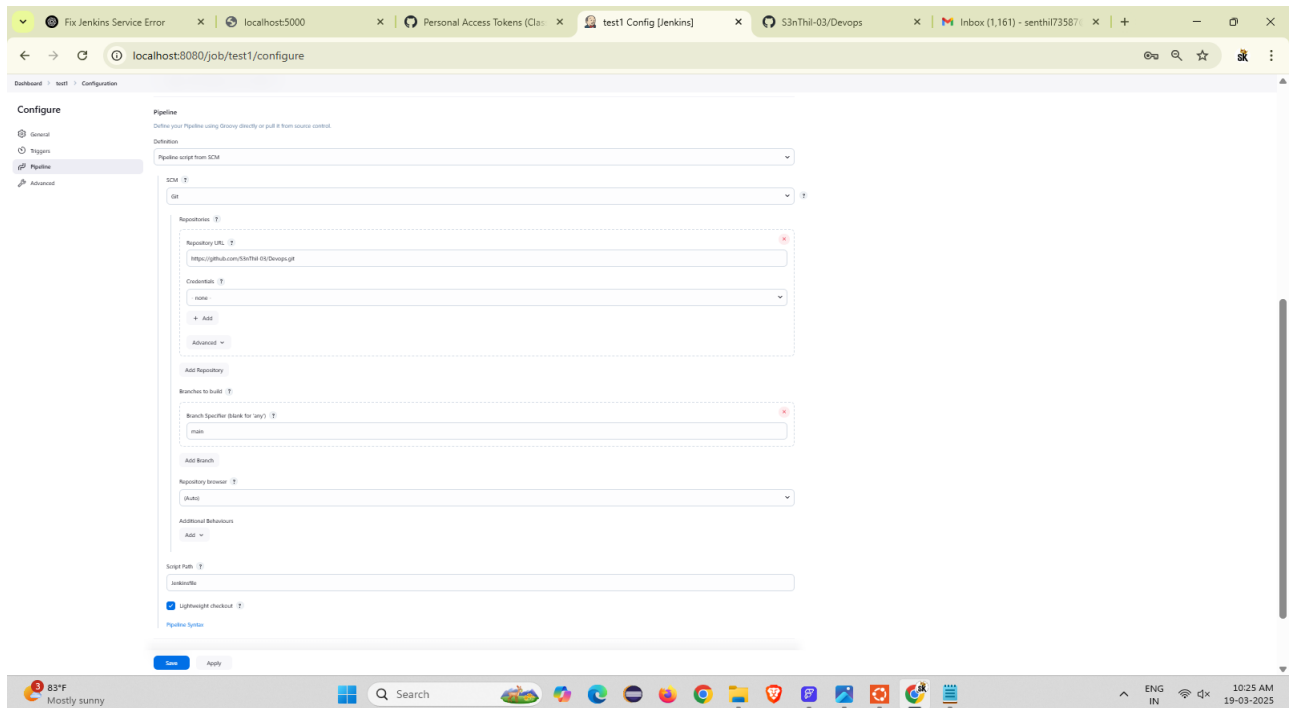
Step 3: generate and copy the token (classic)



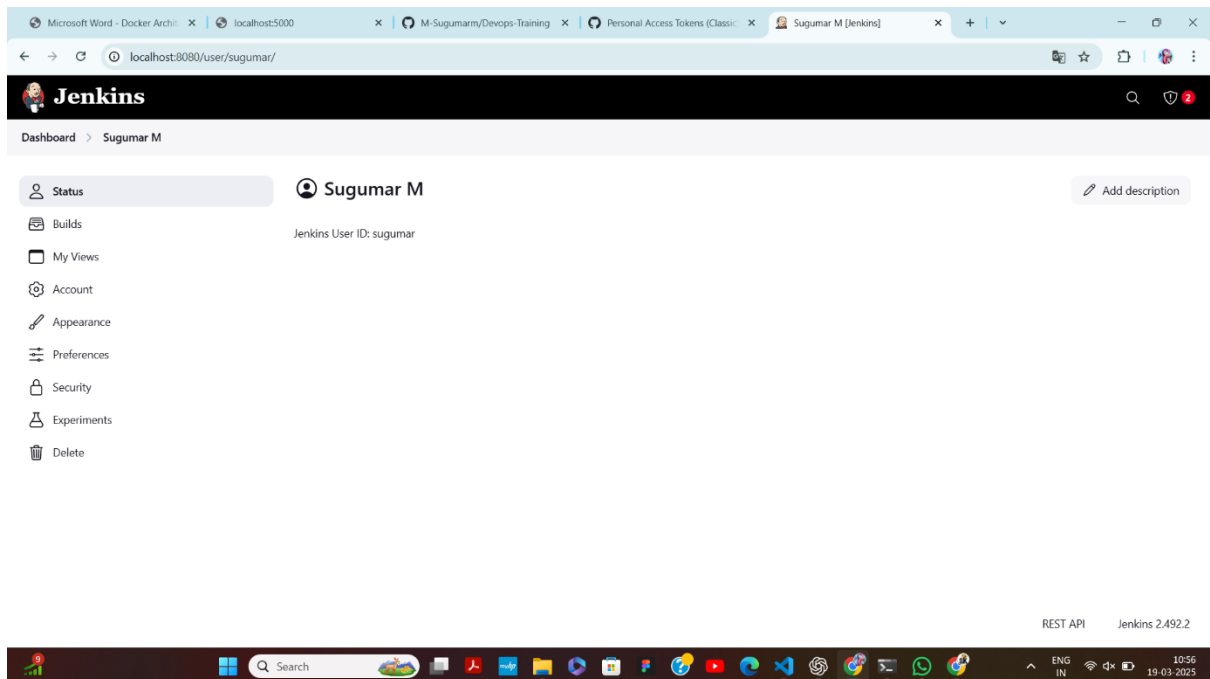
Step 4: open Jenkins and create new item and select pipeline in that go to configuration add github repository url into it



Step 5: in Jenkins configure save it



Step 6: verify the status page



Step 7: clone the git repository

```
student@CTS-6: ~/docker-python-app
student@CTS-6:~/docker-python-app$ ls
app.py  docker-compose.yml  dockerfile  requirements.txt
student@CTS-6:~/docker-python-app$ cat docker-compose.yml
version: '3.8'
services:
  web:
    build: .
    ports:
      - "5000:5000"
    volumes:
      - ./app
    restart: always
student@CTS-6:~/docker-python-app$ sudo systemctl enable jenkins
[sudo] password for student:
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
student@CTS-6:~/docker-python-app$ sudo systemctl start jenkins
student@CTS-6:~/docker-python-app$ cat dockerfile
FROM python:3.11
WORKDIR /app
COPY requirements.txt .
RUN pip install --no-cache-dir flask
COPY . .
EXPOSE 5000
CMD ["python", "app.py"]
student@CTS-6:~/docker-python-app$ ls
app.py  docker-compose.yml  dockerfile  requirements.txt
student@CTS-6:~/docker-python-app$ git clone https://github.com/S3nThil-03/Devops.git_
```

Step 8: using cd add the repository into it

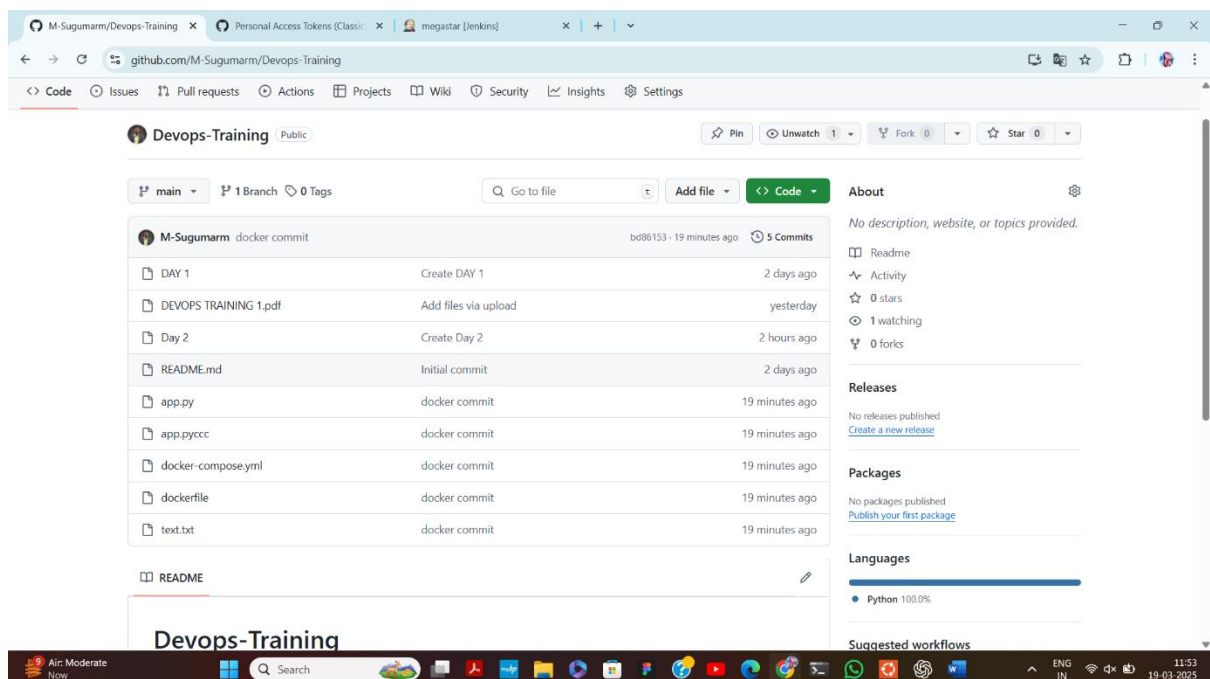
```
student@CTS-6: ~/docker-python-app/Devops
- ./app
  restart: always
student@CTS-6:~/docker-python-app$ sudo systemctl enable jenkins
[sudo] password for student:
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
student@CTS-6:~/docker-python-app$ sudo systemctl start jenkins
student@CTS-6:~/docker-python-app$ cat dockerfile
FROM python:3.11
WORKDIR /app
COPY requirements.txt .
RUN pip install --no-cache-dir flask
COPY . .
EXPOSE 5000
CMD ["python", "app.py"]
student@CTS-6:~/docker-python-app$ ls
app.py  docker-compose.yml  dockerfile  requirements.txt
student@CTS-6:~/docker-python-app$ git clone https://github.com/S3nThil-03/Devops.git
Cloning into 'Devops'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 14 (delta 5), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (14/14), 4.84 MiB | 4.13 MiB/s, done.
Resolving deltas: 100% (5/5), done.
student@CTS-6:~/docker-python-app$ ls
Devops  app.py  docker-compose.yml  dockerfile  requirements.txt
student@CTS-6:~/docker-python-app$ mv app.py docker-compose.yml dockerfile requirements.txt Devops/
student@CTS-6:~/docker-python-app$ ls
Devops
student@CTS-6:~/docker-python-app$ cd Devops/
student@CTS-6:~/docker-python-app/Devops$ ls
'Day 1'  README.md  app.py  docker-compose.yml  dockerfile  requirements.txt
student@CTS-6:~/docker-python-app/Devops$
```

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

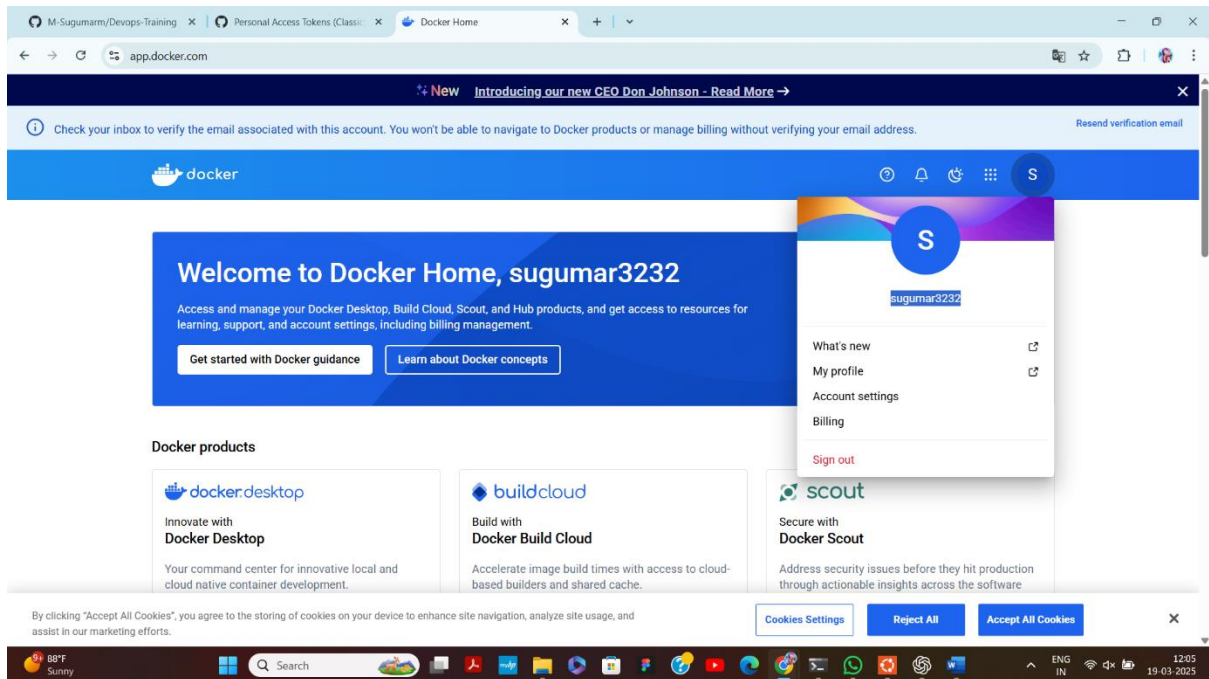
```
student@CTS-6: ~/docker-python-app/Devops
to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: empty ident name (for <student@CTS-6.>) not allowed
student@CTS-6:~/docker-python-app/Devops$ git config --global user.email senthil73587@gmail.com
student@CTS-6:~/docker-python-app/Devops$ git config --global user.name S3nThil-03
student@CTS-6:~/docker-python-app/Devops$ git config --global user.email "senthil73587@gmail.com"
student@CTS-6:~/docker-python-app/Devops$ git config --global user.name "S3nThil-03"
student@CTS-6:~/docker-python-app/Devops$ git commit -m "Initial commit"
[main 3b7729f] Initial commit
4 files changed, 27 insertions(+)
create mode 100644 app.py
create mode 100644 docker-compose.yml
create mode 100644 dockerfile
create mode 100644 requirements.txt
student@CTS-6:~/docker-python-app/Devops$ git push https://S3nThil-03:ghp_wq5p5Wm1v80EiAChpFcpMADMOH1qa93k0g8a@github.com/S3nThil-03/Devops.git
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 815 bytes | 815.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/S3nThil-03/Devops.git
    b1e96e7..3b7729f  main -> main
student@CTS-6:~/docker-python-app/Devops$
```

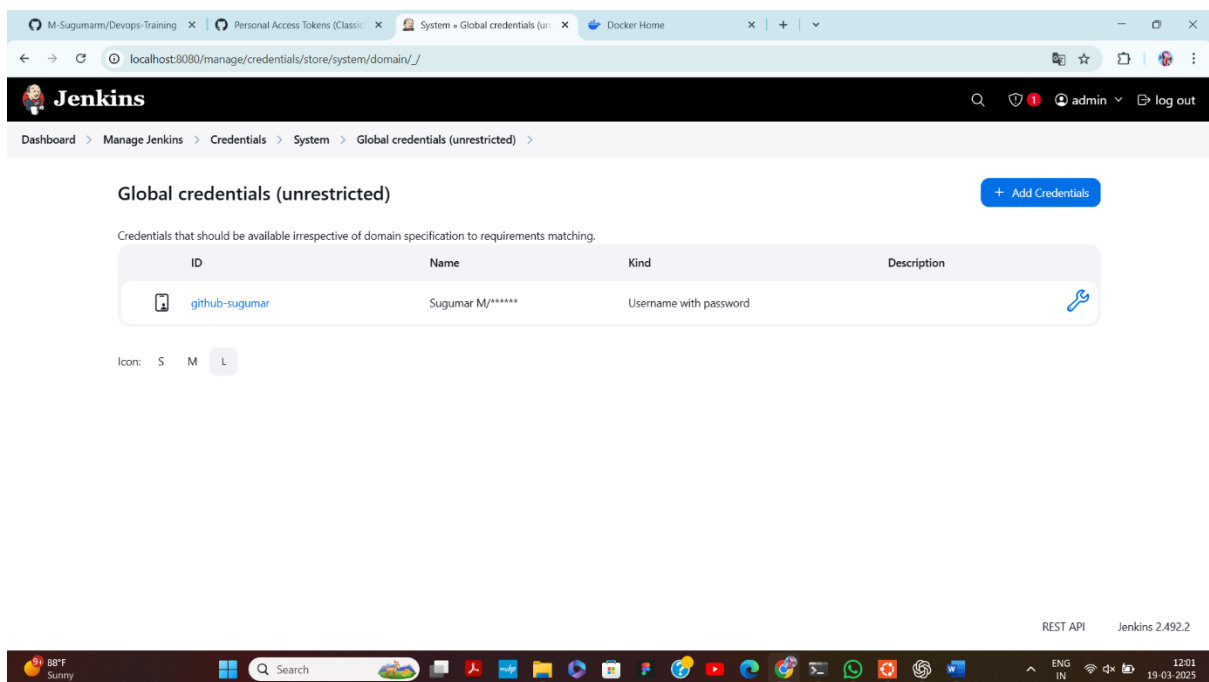
Step 10: check the docker all the files are uploaded in the github repository



Step 11: go to the docker and login in



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



Step 13: commit the jenkinsfile into github

```
student@megastar: ~/docker-python-app/Devops-Training
Remote: Counting objects: 100% (11/11), done.
Remote: Compressing objects: 100% (8/8), done.
Remote: Total 11 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (11/11), 5.99 MiB | 1.27 MiB/s, done.
Resolving deltas: 100% (2/2), done.
student@megastar:~/docker-python-app$ mv app.py app.pyccc docker-compose.yml dockerfile text.txt Devops-Training/
student@megastar:~/docker-python-app$ ls
Devops-Training
student@megastar:~/docker-python-app$ cd Devops-Training/
student@megastar:~/docker-python-app/Devops-Training$ ls
'DAY 1' 'DEVOPS TRAINING 1.pdf' 'Day 2' README.md app.py app.pyccc docker-compose.yml dockerfile text.txt
student@megastar:~/docker-python-app/Devops-Training$ git add .
student@megastar:~/docker-python-app/Devops-Training$ git commit -m "docker commit"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
omit --global to set the identity only in this repository.

fatal: empty ident name (for <student@megastar.>) not allowed
student@megastar:~/docker-python-app/Devops-Training$ git config --global user.email "sugus7215@gmail.com"
student@megastar:~/docker-python-app/Devops-Training$ git config --global user.name "M-Sugumarm"
student@megastar:~/docker-python-app/Devops-Training$ git commit
Aborting commit due to empty commit message.
student@megastar:~/docker-python-app/Devops-Training$ git commit -m "docker commit"
[main b08153] docker commit
5 files changed, 38 insertions(+)
create mode 100644 app.py
create mode 100644 app.pyccc
create mode 100644 docker-compose.yml
create mode 100644 dockerfile
create mode 100644 text.txt
student@megastar:~/docker-python-app/Devops-Training$ git push https://M-Sugumarm:ghp_Ctx8XpsHfHq7PAxh9tUxhXQVysK1hD0Ym@github.com/M-Sugumarm/Devops-Training.git
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 1.02 KiB | 1.02 MiB/s, done.
Total 7 (delta 0), reused 0 (delta 0), pack-reused 0
to https://github.com/M-Sugumarm/Devops-Training.git
ec2bc96..b08153 main -> main
student@megastar:~/docker-python-app/Devops-Training$
```

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

The screenshot shows the GitHub repository page for `M-Sugumarm/Devops-Training`. The repository is public and has 13 commits. The commit history table lists the following files and their commit times:

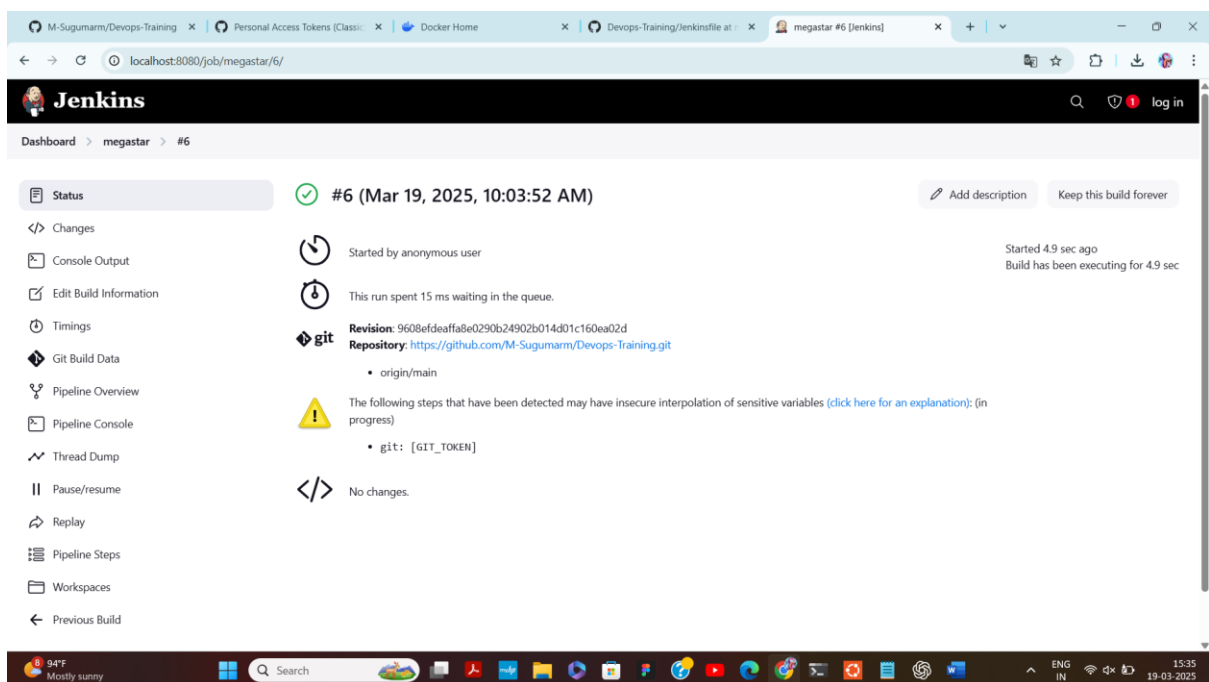
File	Commit Message	Time
DAY 1	Create DAY 1	2 days ago
DEVOPS TRAINING 1.pdf	Add files via upload	yesterday
Day 2	Create Day 2	8 hours ago
Jenkinsfile	jenkins commit	2 hours ago
README.md	Initial commit	2 days ago
app.py	docker commit	6 hours ago
app.pyccc	docker commit	6 hours ago
docker-compose.yml	docker commit	6 hours ago
dockerfile	docker commit	6 hours ago
file	jenkins commit	3 hours ago
jenkins	jenkins commit	3 hours ago
text.txt	docker commit	6 hours ago

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

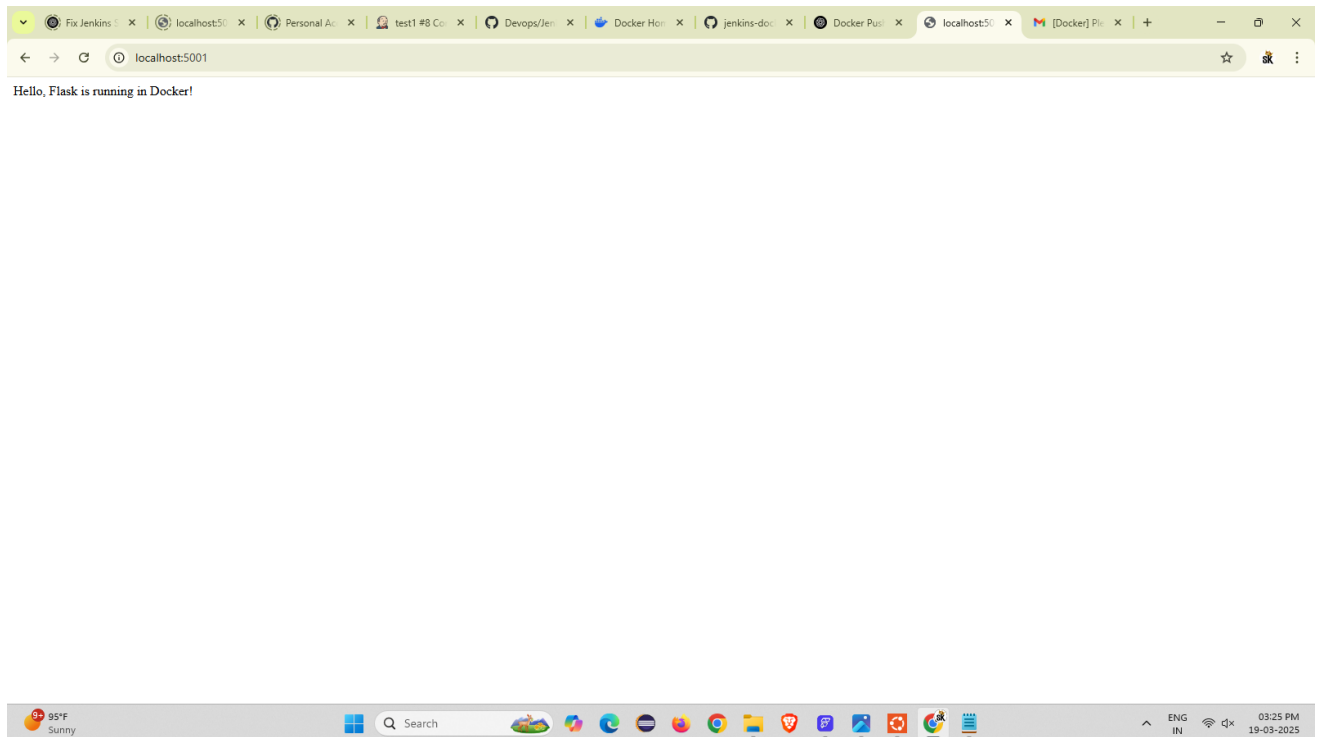
```
student@CTS-6: ~/docker-python-app/Devops
Day 1 README.md app.py docker-compose.yml dockerfile jenkinsfile requirements.txt
student@CTS-6:~/docker-python-app/Devops$ nano jenkinsfile
student@CTS-6:~/docker-python-app/Devops$ nano jenkinsfile
student@CTS-6:~/docker-python-app/Devops$ git add .
student@CTS-6:~/docker-python-app/Devops$ git commit -m "Second Commit"
[main 3f97c4c] Second Commit
1 file changed, 66 insertions(+)
create mode 100644 jenkinsfile
student@CTS-6:~/docker-python-app/Devops$ nano jenkinsfile
student@CTS-6:~/docker-python-app/Devops$ git add .
student@CTS-6:~/docker-python-app/Devops$ git commit -m "Second Commit"
[main 443aae6] Second Commit
1 file changed, 1 insertion(+), 1 deletion(-)
student@CTS-6:~/docker-python-app/Devops$ git push https://S3nThil-03:ghp_wq5p5wM1vBOEiaChpFcPMADMOHlqa93k0g8a@github.com/S3nThil-03/Devops.git
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.19 KiB | 1.19 MiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/S3nThil-03/Devops.git
3b7729f..443aae6 main -> main
student@CTS-6:~/docker-python-app/Devops$ ls
Day 1 README.md app.py docker-compose.yml dockerfile jenkinsfile requirements.txt
student@CTS-6:~/docker-python-app/Devops$ sudo usermod -aG docker jenkins
[sudo] password for student:
student@CTS-6:~/docker-python-app/Devops$ sudo systemctl restart jenkins
student@CTS-6:~/docker-python-app/Devops$ docker push senthil73587/docker-app:latest
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.45/images/sen
thil73587/docker-app/push?tag=latest": dial unix /var/run/docker.sock: connect: permission denied
student@CTS-6:~/docker-python-app/Devops$ docker login -u senthil73587 -p senthil2233
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /home/student/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
student@CTS-6:~/docker-python-app/Devops$ sudo usermod -aG docker jenkins
```

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



Step 17 : run the localhost:5001



Step 18 : check the image repository in docker

