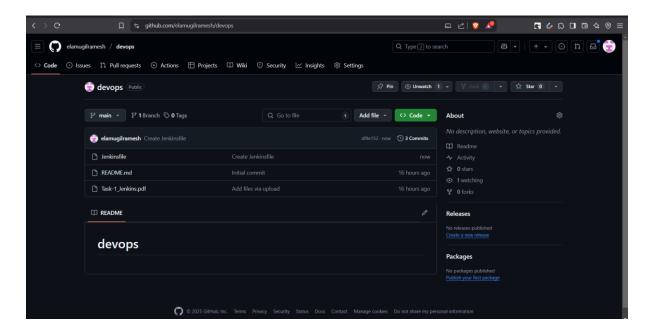
Name: ELAMUGIL S [24MCR010]

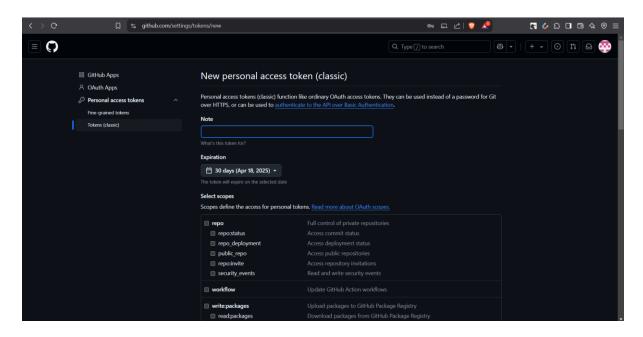
Class: I - MCA - 'A'

DAY 2: **DEVOPS TRAINING**

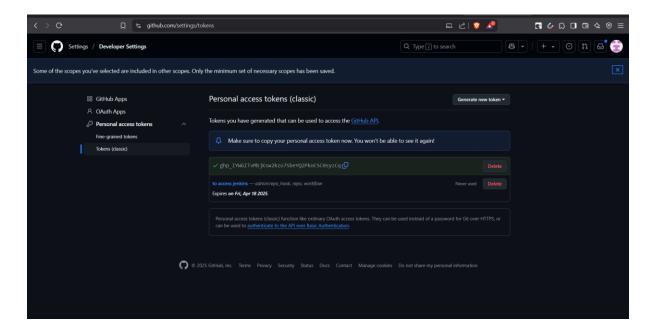
Step 1: create repository in github



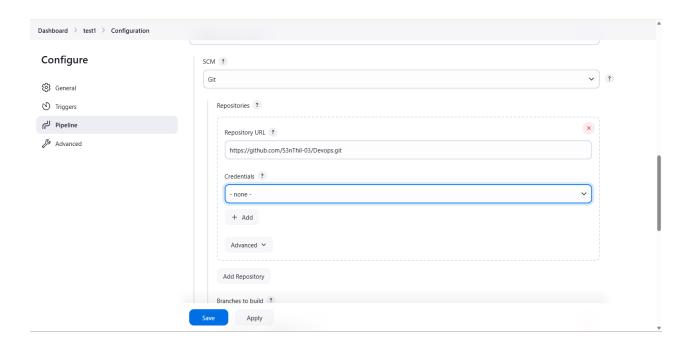
Step 2: go to developer settings



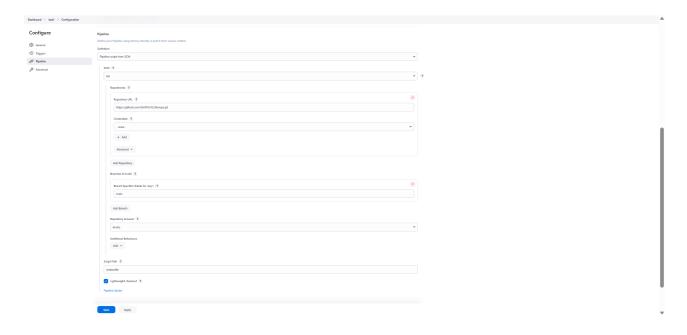
Step 3: generate and copy the token (classic)



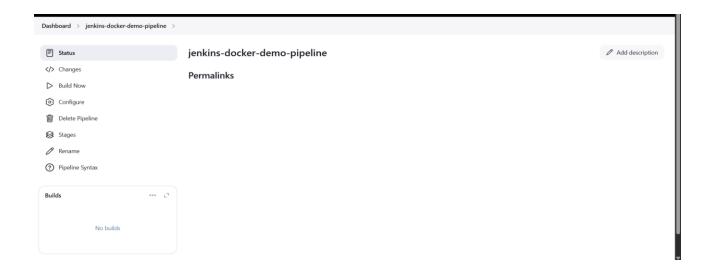
Step 4: open Jenkins and create new item and select pipeline in that go to configuration add github repository url into it



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
                                                                                                                                                                             ā X
student@CTS-6:~/Goker-python-app$ ls
app.py docker-compose.yml dockerfile requirements.txt
      nt@CTS-6:~/docker-python-app$ cat docker-compose.yml
services:
 web:
    build: .
    ports:
- "5000:5000"
     volumes:
   - .:/app
   restart: always
           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"]
               6:~/docker-python-app$ ls
app.py docker-compose.yml dockerfile requirements.txt
       t@CTS-6:~/docker-python-app$ git clone https://github.com/S3nThil-03/Devops.git_
```

Step 8: using cd add the repository into it

```
- .:/app
restart: always
tudent@tTs-fs:-/docker-python-app$ sudo systemctl enable jenkins
[sudo] password for student:
[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@tTs-s:-/docker-python-app$ sudo systemctl start jenkins
student@tTs-s:-/docker-python-app$ cat dockerfile
FROM python3.11

WORKOIR /app
COPY requirements.tt.
RUN pip install --no-cache-dir flask
COPY .

EXPOSE 5000
CND ['python', "app.py"]
student@tTs-s:-/docker-python-app$ is dockerfile requirements.txt
student@tTs-si-/docker-python-app$ git clone https://github.com/S3nThil-03/Devops.git
Cloning into 'Devops' ...
remote: Foundation objects: 100% (14/14), done.
remote: Counting objects: 100% (14/14), 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% (14/14), 4.84 MiB | 4.13 MiB/s, done.
Resolving deltas: 100% (14/14), 4.84 MiB | 4.13 MiB/s, done.
Resolving deltas: 100% (14/14), 4.84 MiB | 4.13 MiB/s, done.
Resolving deltas: 100% (14/14), docker-python-app$ ls
Devops app.py docker-compose.yml dockerfile requirements.txt
student@tTs-5:-/docker-python-app$ ls
Devops
student@tTs-5:-/docker-python-app$ locker-compose.yml dockerfile requirements.txt
student@tTs-5:-/docker-python-app locker-compose.yml dockerfile requirements.txt
student@tTs-5:-/docker-python-app locker-compose.yml dockerfile requirements.txt
student@tTs-5:-/docker-python-app/Devops$
student@tTs-5:-/docker-python-app/Devops$
student@tTs-6:-/docker-python-app/Devops$
```

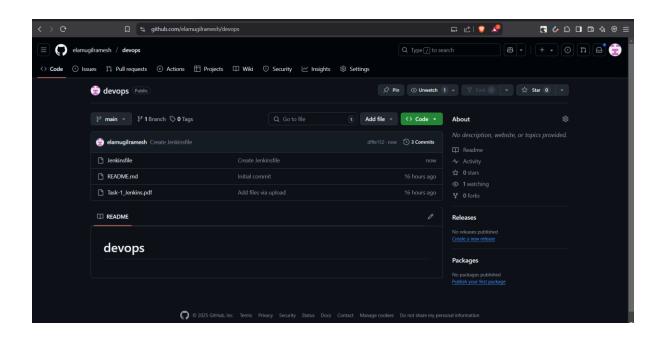
Step 9: using git push command to push all the files into github

```
O account's default identity.

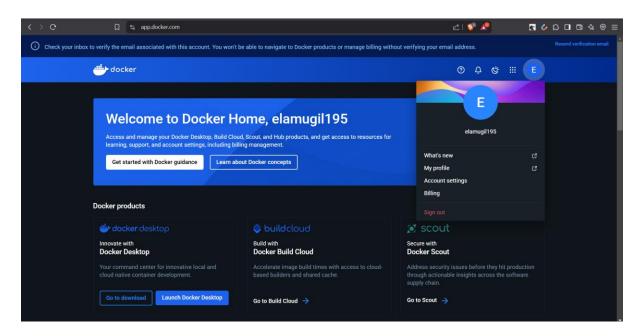
Omit --glabal to set the identity only in this repository.

fatal: empty ident name (for <student@CTS-6.2) 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.email "senthil73587@gmail.com" 
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.email "senthil73587@gmail.com" 
student@CTS-6:*/docker.python-app/Devops$ git comfig --global user.email "senthil73587@gmail.com" 
student@CTS-6:*/docker.python-app/Devops$ git commit -m "Initial commmit" 
4 files changed, 27 insertions(+) 
create mode 100664 docker-ompose.yml 
create mode 100664 docker-ompose.yml 
create mode 100664 requirements.txt 
student@CTS-6:*/docker.python-app/Devops$ git push https://S3nThil-03:ghp_wq5pSbWNIv8OETaCHpFcpMADMOHlqa93kOg8a@github.com/S3nThil-03/Devops.git 
Enumerating objects: 100% (677), done. 
Delta compression using up to 16 threads 
Compressing objects: 100% (676), 815 bytes | 815.00 kiB/s, done. 
Writing objects: 100% (676), 815 bytes | 815.00 kiB/s, done. 
Writing objects: 100% (676), 815 bytes | 815.00 kiB/s, done. 
Total 6 (delta 0), reused 0 (delta 0) pack-reused 0 (delta 0) pac
```

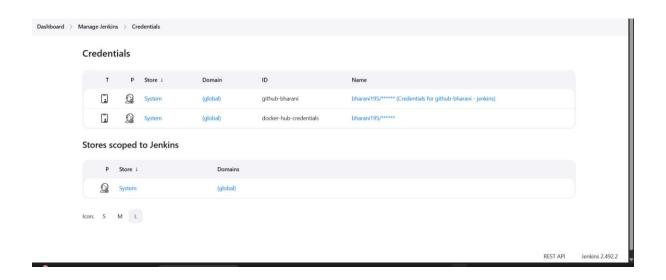
Step 10: check the docker all the files are uploaded in the github repository



Step 11: go to the docker and login in



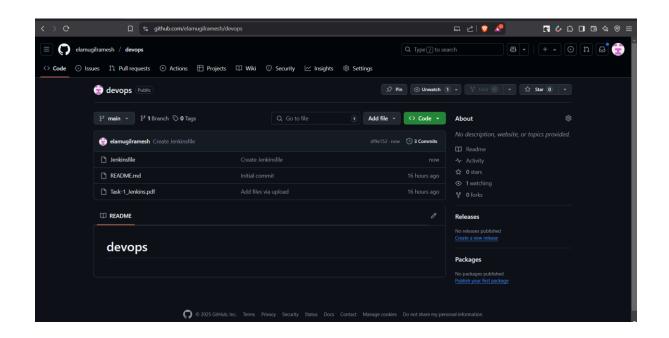
Step 12: in jenkins copy the global credentials and change in the jenkins file



Step 13: commit the jenkinsfile into github

```
# Undermited Servidocker-python-app/Devops git push https://s3nThil-03:ghp_wg5pSMMIv8OEIaCHpFcpMADMOHIqa93kOg8a@github.com/s3nThil-03/Devops.git studentagits-6:r/docker-python-app/Devops git push https://s3nThil-03:ghp_wg5pSMMIv8OEIaCHpFcpMADMOHIqa93kOg8a@github.com/s3nThil-03/Devops.git studentagits-6:r/docker-python-app/Devops snano jenkinsfile studentagits-6:r/docker-python-app/Devops snano jenkinsfile studentagits-6:r/docker-python-app/Devops snano jenkinsfile studentagits-6:r/docker-python-app/Devops spit add s
```

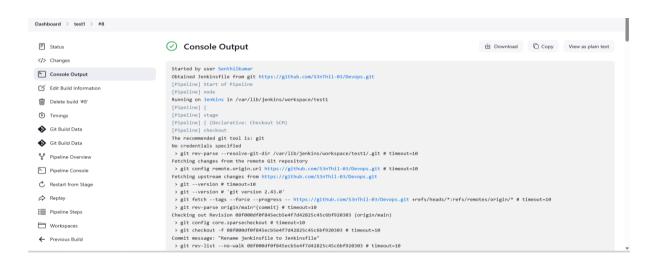
Step 14: verify the jenkins file is pushed in the github



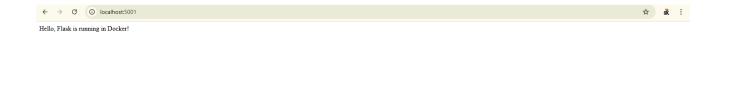
Step 15: using "sudo usermod –aG docker jenkins" and restart the jenkins

```
Date of Control (Control (Con
```

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