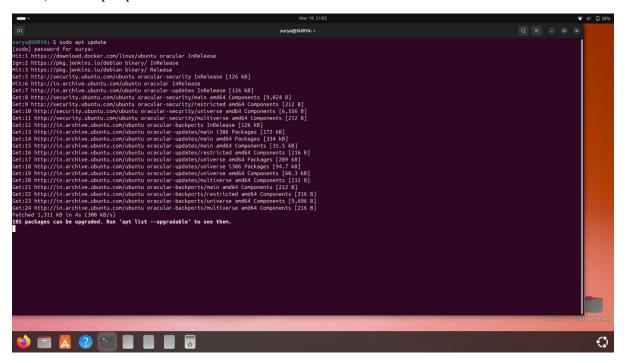
DAY-2

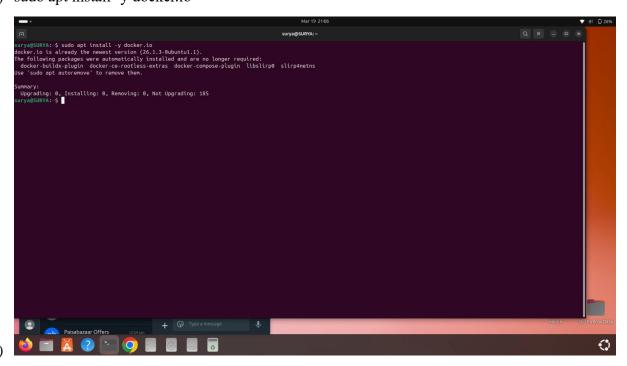
DEVOPS

STEP -1: INSTALL DOCKER

1) sudo apt update



2) sudo apt install -y docker.io



STEP 2: ENABLE AND DISABLE

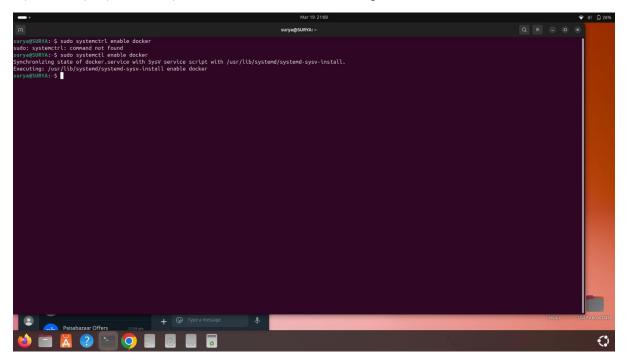
- 1) sudo systemctl enable docker
- 2)sudo systemctl start docker

STEP 3: VERIFY THE INSTALLATION:

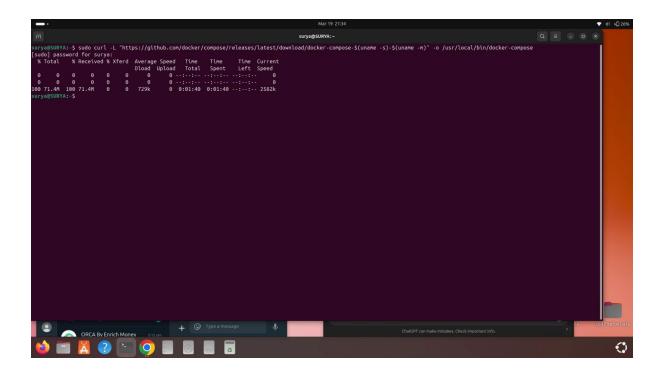
docker -version

STEP 4:INSTALL DOCKER COMPOSE

 $sudo\ curl\ -L\ "https://github.com/docker/compose/releases/latest/download/docker-compose-s(uname\ -s)-s(uname\ -m)"\ -o\ /usr/local/bin/docker-compose$



Give execution permission:



VERIFY INSTALLATION

```
surya@SURYA:~/task-manager$ docker-compose --version

Docker Compose version v2.34.0

surya@SURYA:~/task-manager$
```

CREATE AN "HELLO WOLRD: APPLICATION

Create a project directory

```
~$ mkdir ~/docker-python-app
~$ cd ~/docker-python-app
```

Create the python Application File

Create a file

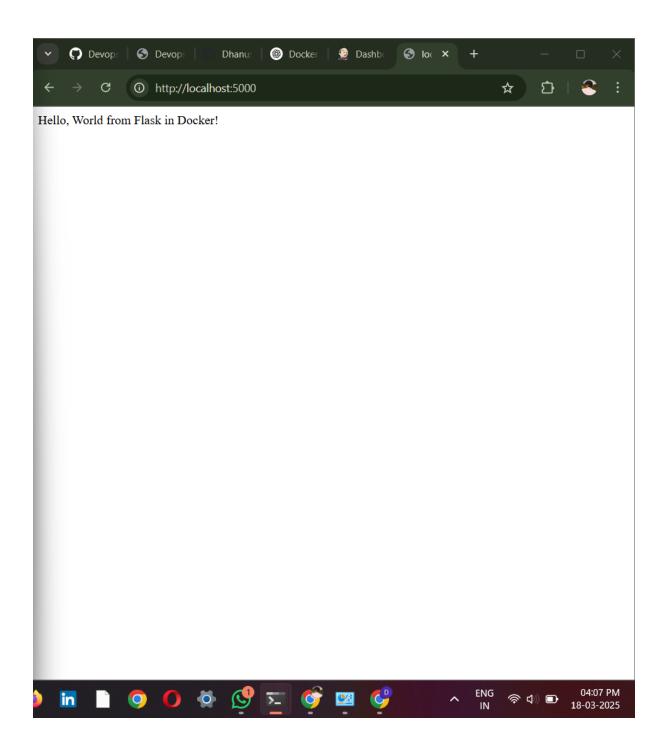
```
surya@SURYA:~/my_python_app/devopsDay2$ cat app.py
from flask import Flask
app = Flask(__name__) # Create a Flask web app

dapp.route('/')
def home():
    return "Hello, Docker!" # Display this text on the webpage

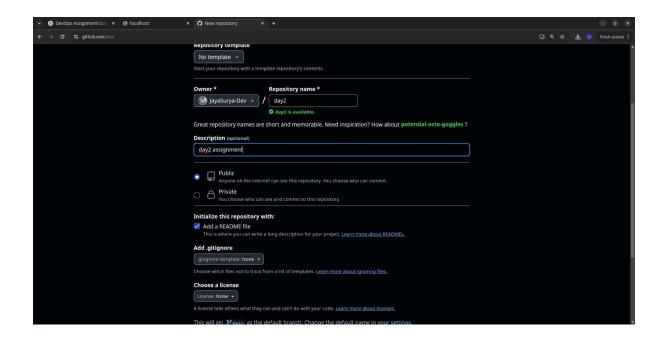
if __name__ == "__main__":
    app.run(host="0.0.0.0", port=5000) # Run the app on port 5000

surya@SURYA:~/my_python_app/devopsDay2$
```

To Run an Docker



Devops Jenkins-Docker



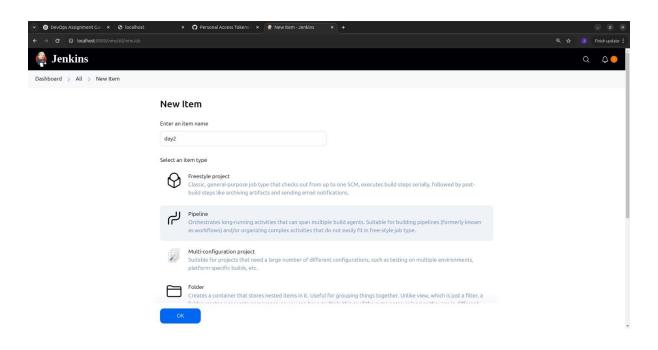
Personal Token: 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

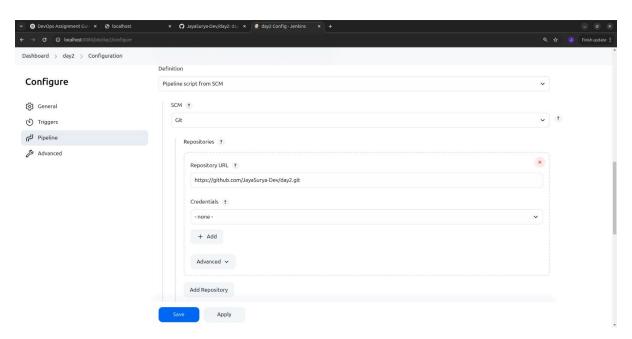
Start Jenkins

```
surya@SURYA:-/my_python_app/devopsDay2$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-instal

| Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
surya@SURYA:-/my_python_app/devopsDay2$

| So
```





Click on Add Credentials and Fill the details



In First Time, it Will have Password, in that we will give github token for it.

Clone the Git Repo in Terminal:

```
surya@SURYA:~/my_python_app/devopsDay2$ ls
app.py docker-compose.yml Dockerfile README.md requirements.txt
surya@SURYA:~/my_python_app/devopsDay2$ git clone https://github.com/JayaSurya-Dev/day2.git

ECloning into 'day2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.

*remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Receiving objects: 100% (3/3), done.
surya@SURYA:~/my_python_app/devopsDay2$ ls
app.py day2 docker-compose.yml Dockerfile README.md requirements.txt
surya@SURYA:~/my_python_app/devopsDay2$ mv Dockerfile app.py docker-compose.yml requirements.txt day2
surya@SURYA:~/my_python_app/devopsDay2$ ls
day2 README.md
surya@SURYA:~/my_python_app/devopsDay2$
```

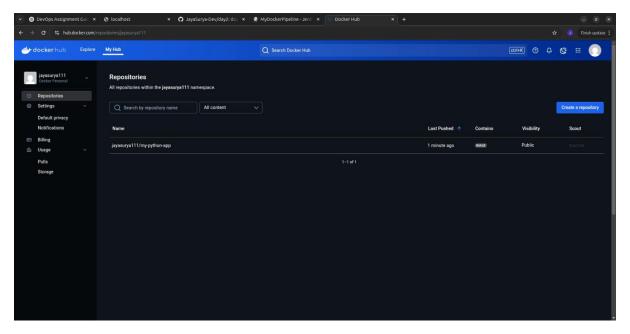
And move all other file to github repo folder.

Git fetch – Remote repo Change and haven't pulled in local.

Working to Push on GitHub Repo:

```
surya@SURYA:~/my_python_app/devopsDay2$ git add .
git commit -m "Fixed Git structure and added files"
git push origin main
[main 3a19aac] Fixed Git structure and added files
5 files changed, 2 insertions(+), 1 deletion(-)
mode change 100644 => 100755 Dockerfile
mode change 100644 => 100755 app.py
mode change 100644 => 100755 docker-compose.yml
mode change 100644 => 100755 requirements.txt
Username for 'https://github.com': Jayasurya-Dev
Password for 'https://jayasurya-Dev@github.com':
To https://github.com/JayaSurya-Dev@github.com':
To https://github.com/JayaSurya-Dev@devopsDay3.git
! [rejected] main -> main (fetch first)
```

Then create, Build now again and Click the repository in docker:



Click the container that we create in Jenkins:

