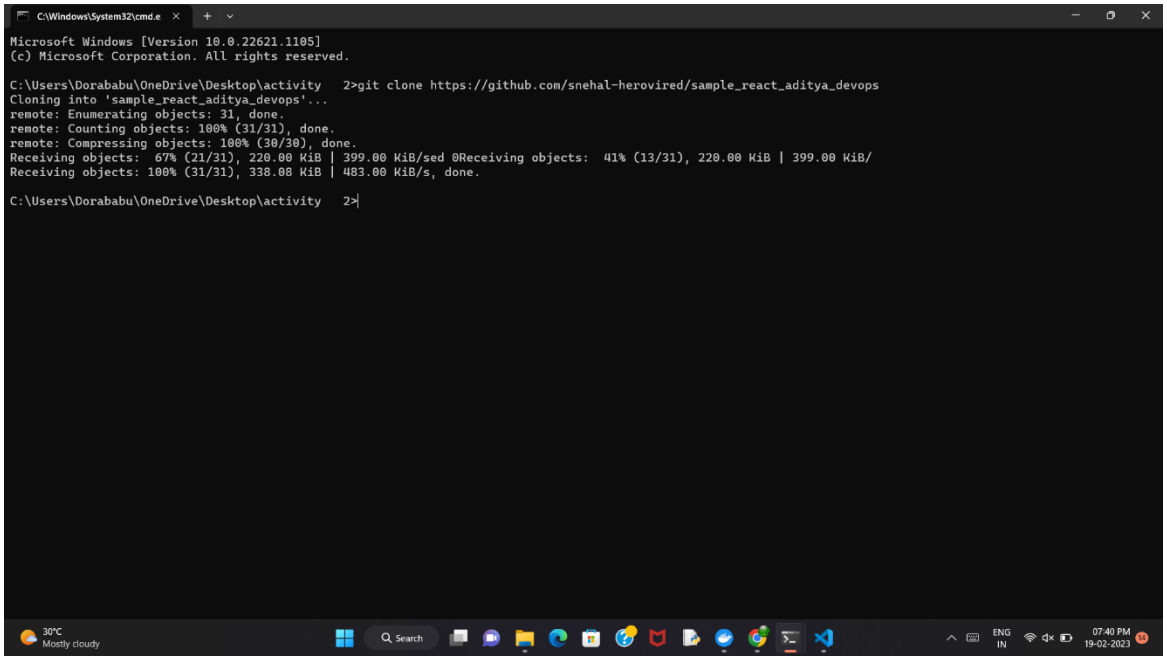
ASSIGNMENT 2

Question1 :

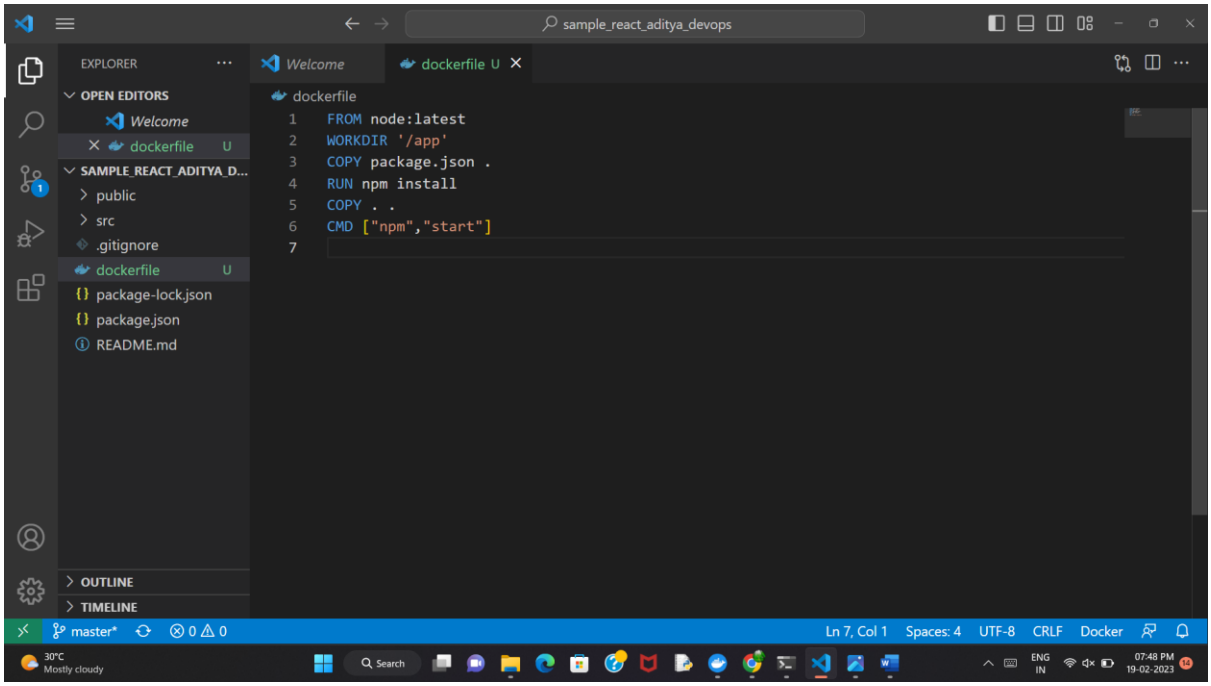
You are provided with a ReactJS application and it can be found on the repository with the link provided below.

Create a Dockerfile for this React application and also create image and run the image as container and the output of the ReactJS application should be shown on the localhost.

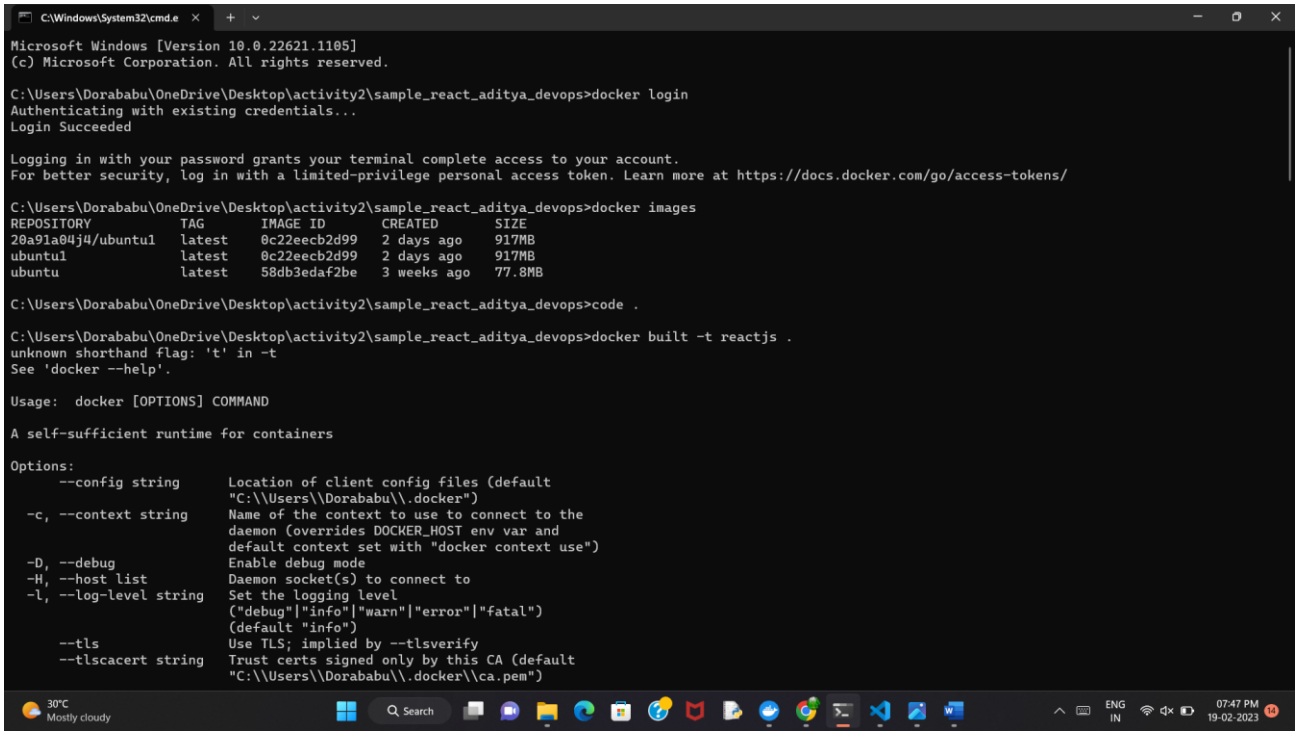
1.DOCKER LOGIN



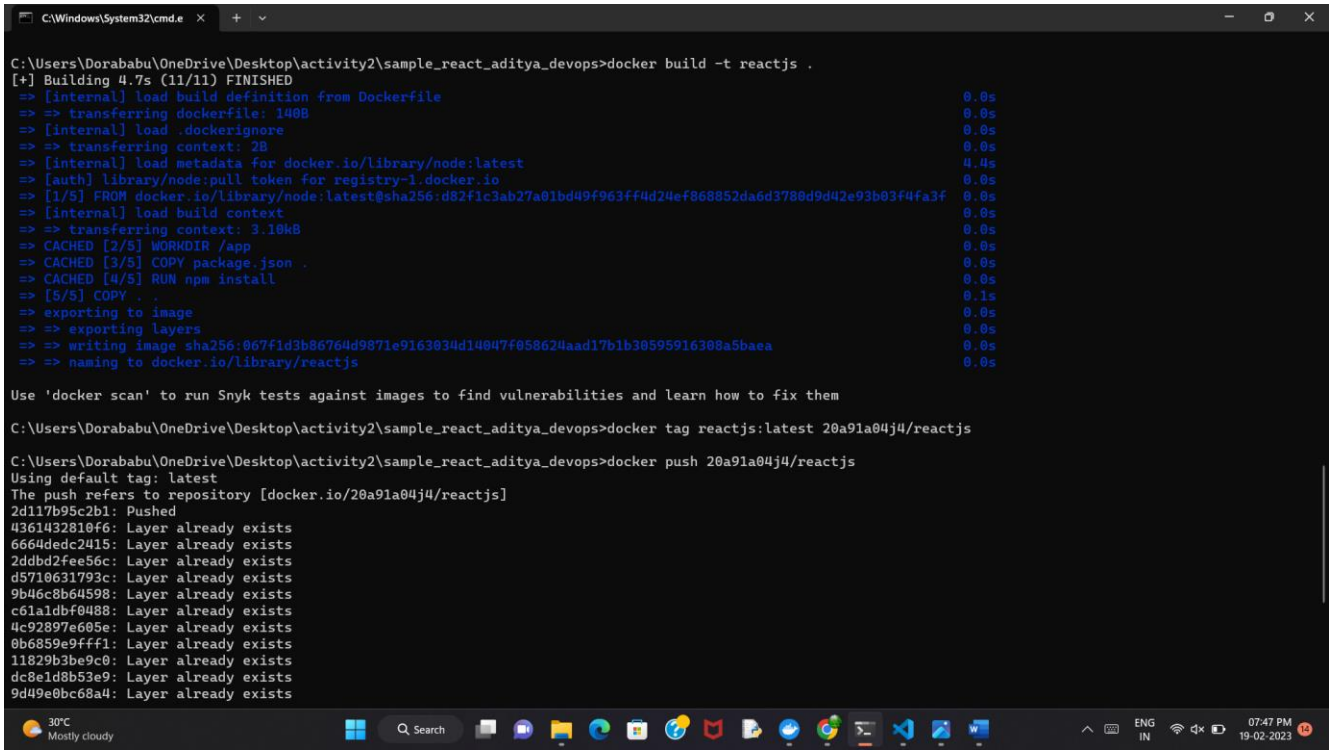
2.CREATING DOCKERFILE



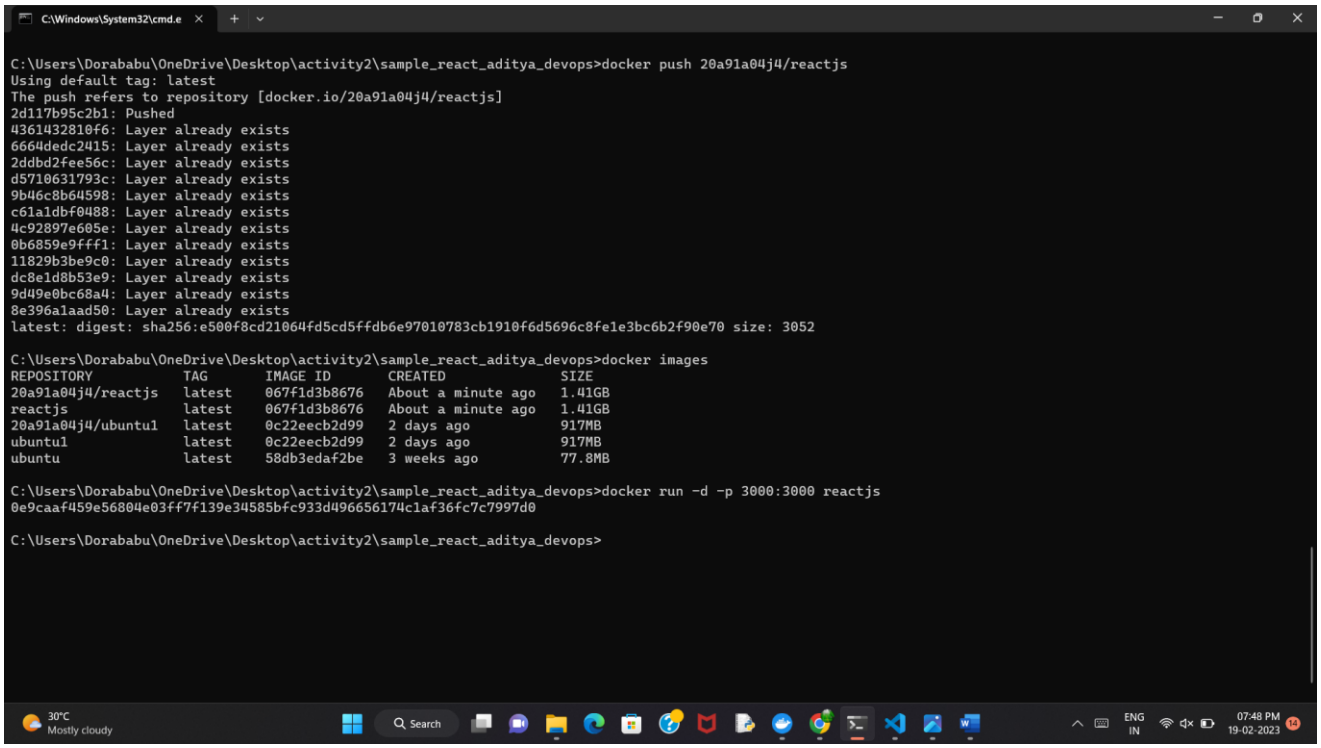
3.DOCKER IMAGES



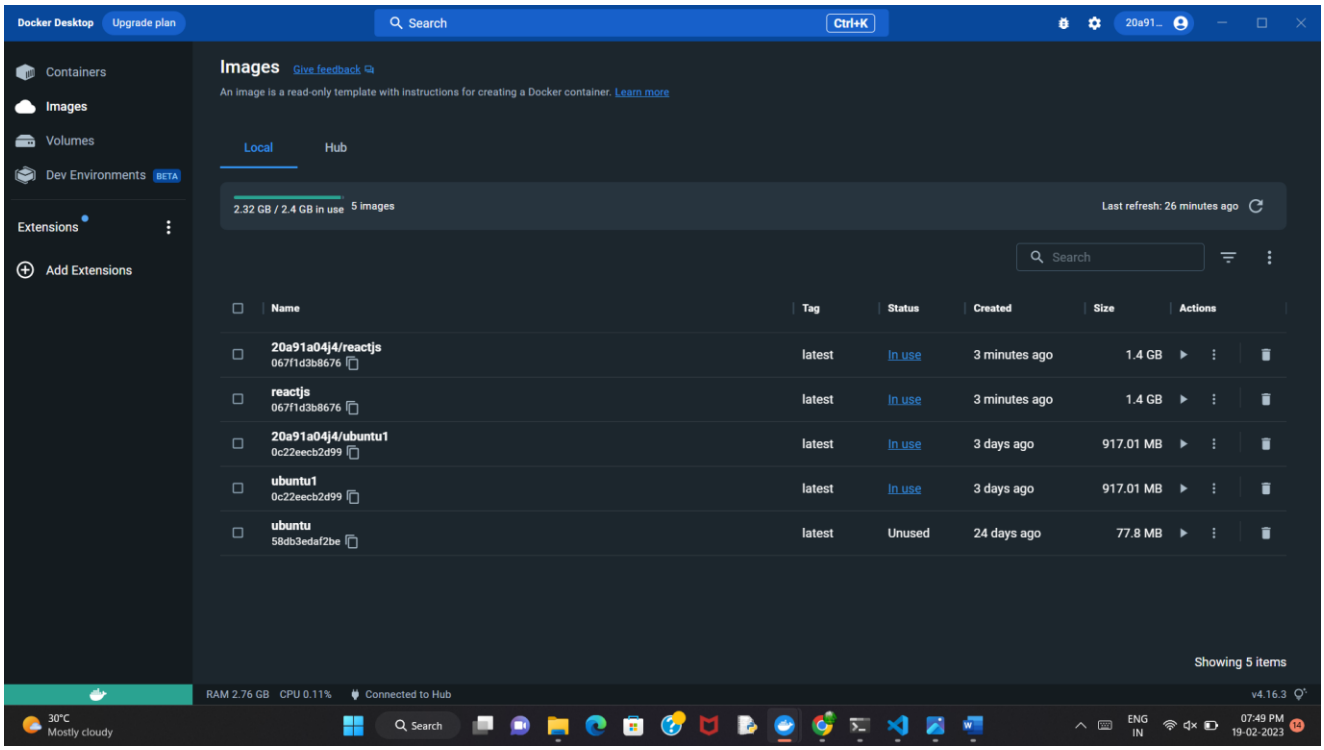
4.DOCKER BUILD -T REACTJS . & DOCKER TAG REACTJS:LATEST 20A91A04J4/REACTJS



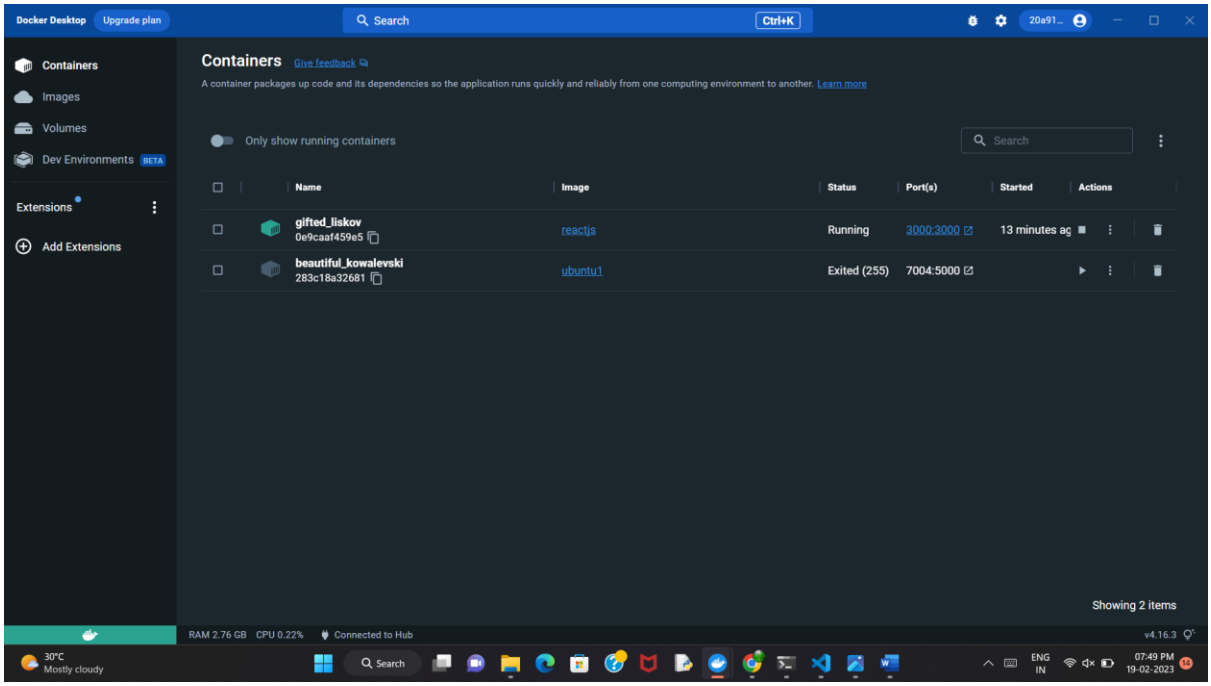
5.DOCKER PUSH 20A91A04J4/REACTJS & DOCKER RUN -D -P 3000:3000 REACTJS



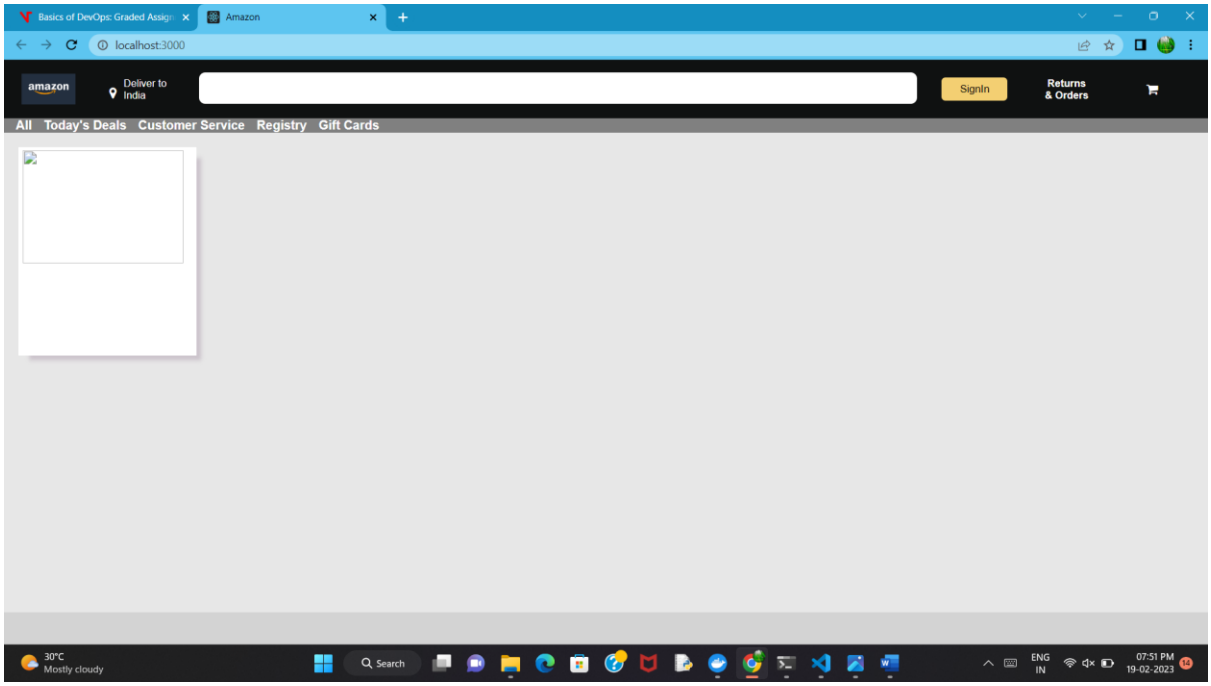
6.DOCKER >> IMAGES (checking docker images in docker application)



7.DOCKER >> CONTAINERS (checking container)



8. LOCALHOST :3000



Question 2:
Describe the CI-CD pipeline and also describe the role of jenkins here.
You have to create a manual ci-cd pipeline through bash script and cron jobs for a nodejs simple application.
For the Node JS application you can have the same application provided to you on the repository here :https://github.com/snehal-herovired/LearningGIt

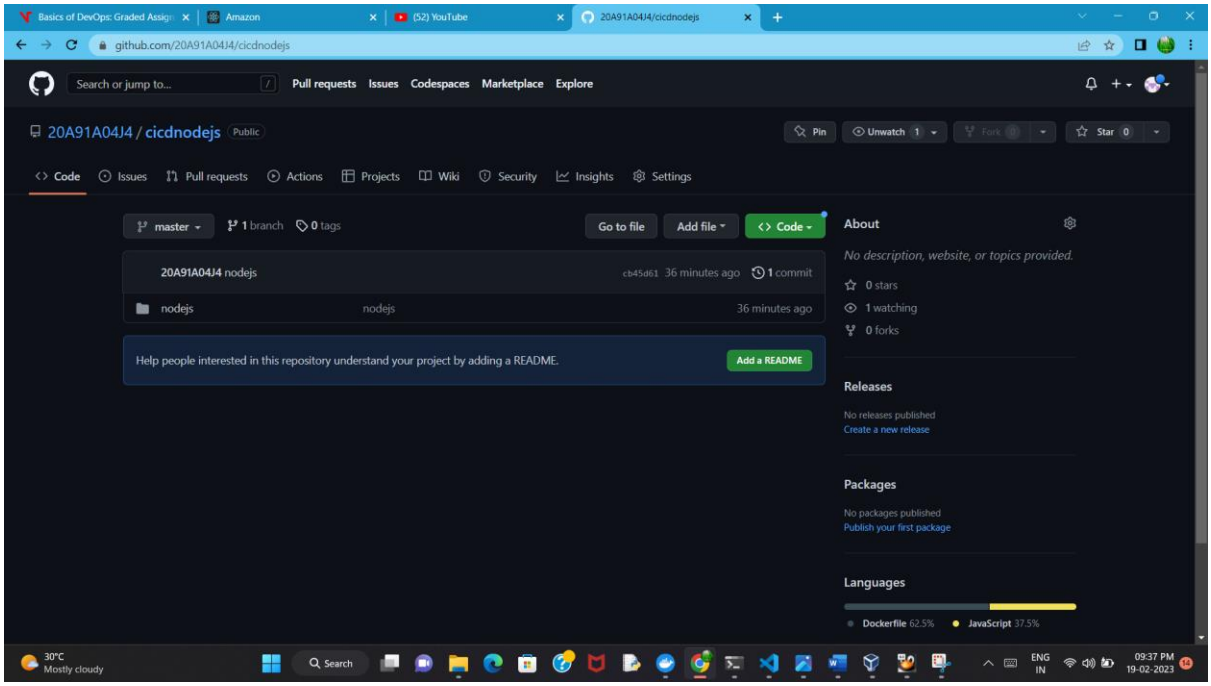
CI-CD PIPELINE :

continuous integration and continuous deployment
a continuous integration and continuous deployment (CI/CD) pipeline is a series of steps that must be performed in order to deliver a new version of software. CI/CD pipelines are a practice focused on improving software delivery throughout the software development life cycle via automation.

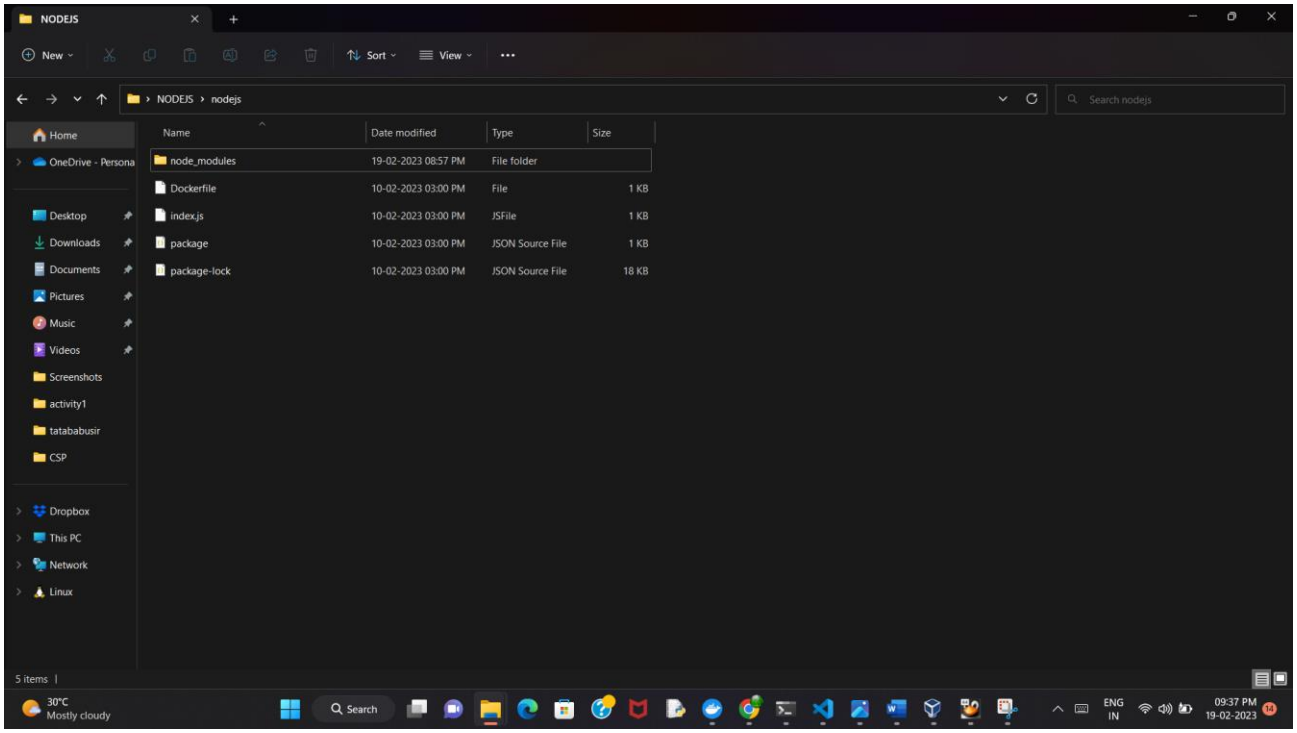
ROLE OF JENKINS IN CI-CD PIPELINE:

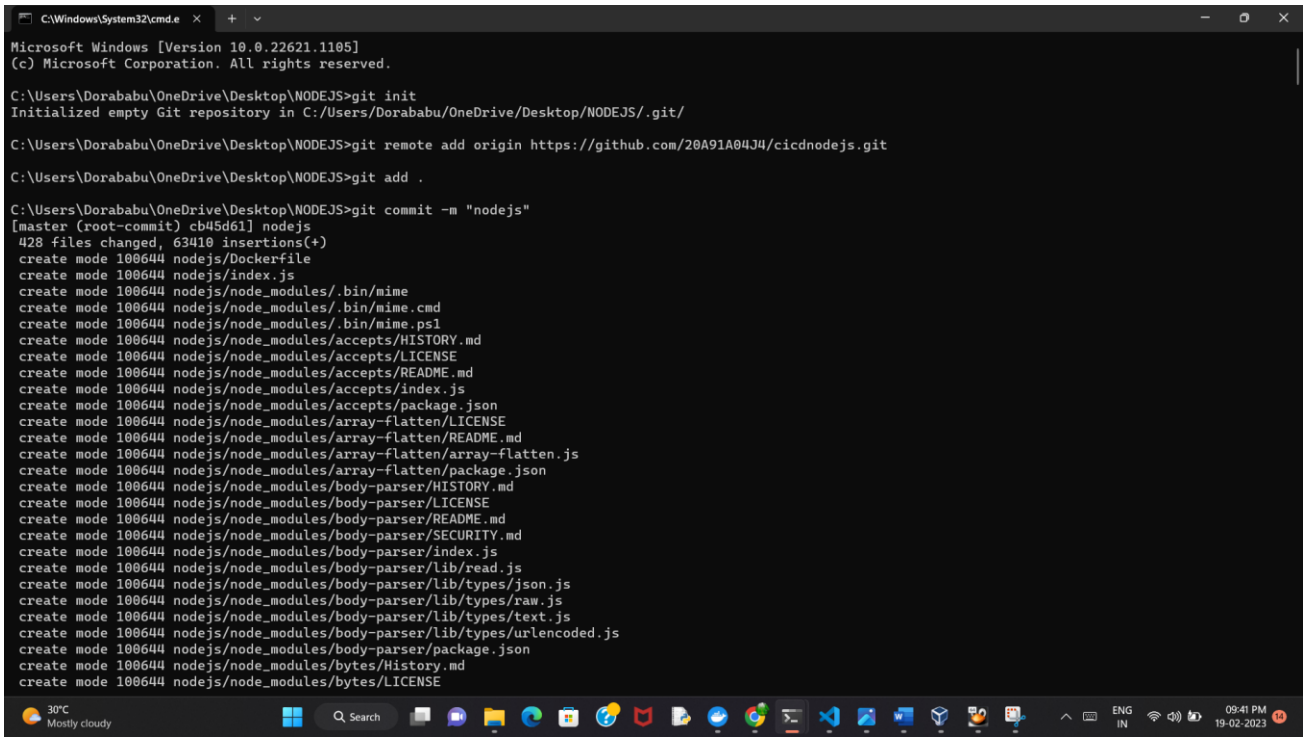
Jenkins is an open-source automation tool used to build and test software projects. The tool makes it more convenient for developers to integrate changes to the project. Jenkins achieves Continuous Integration with the help of plugins.

1.CREATING NEW REPOSITORY CICDNODEJS

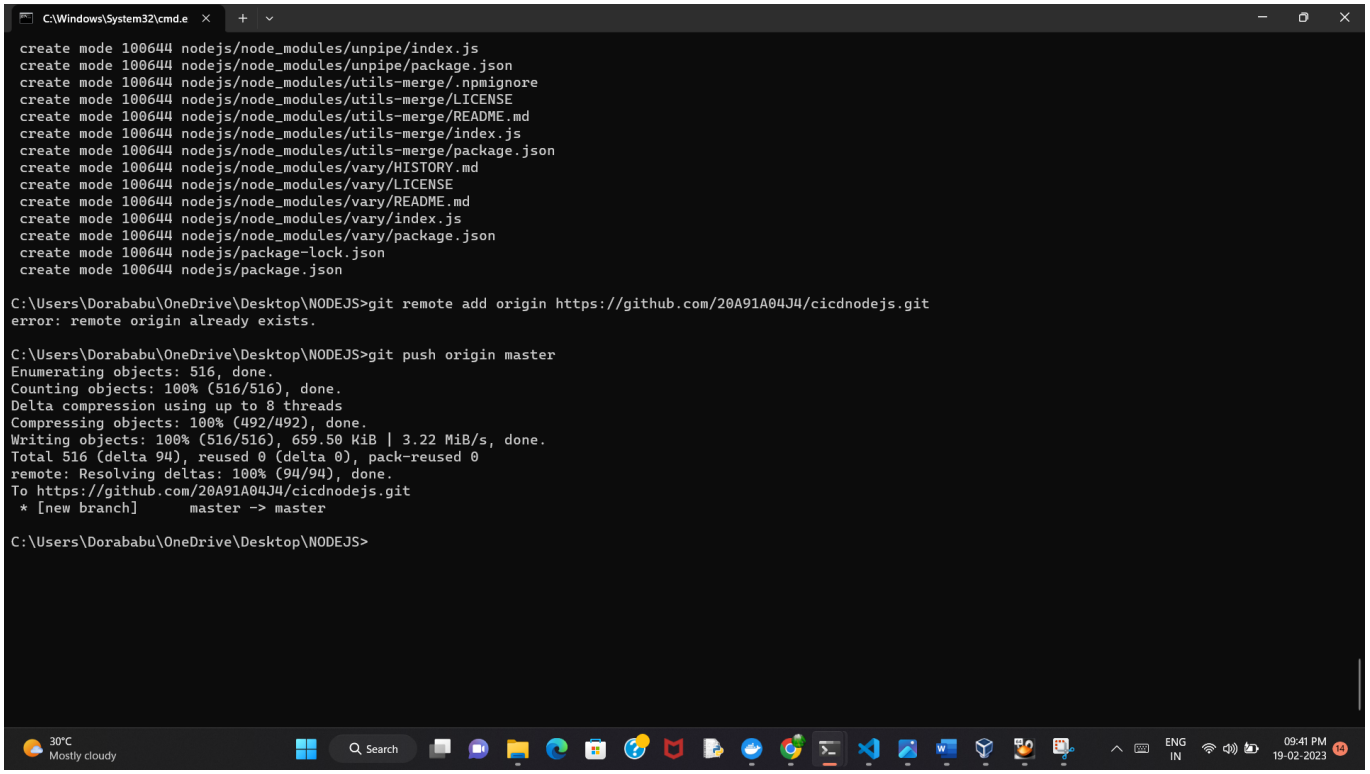


2.CREATING NEW FOLDER & CLONING NODEJS

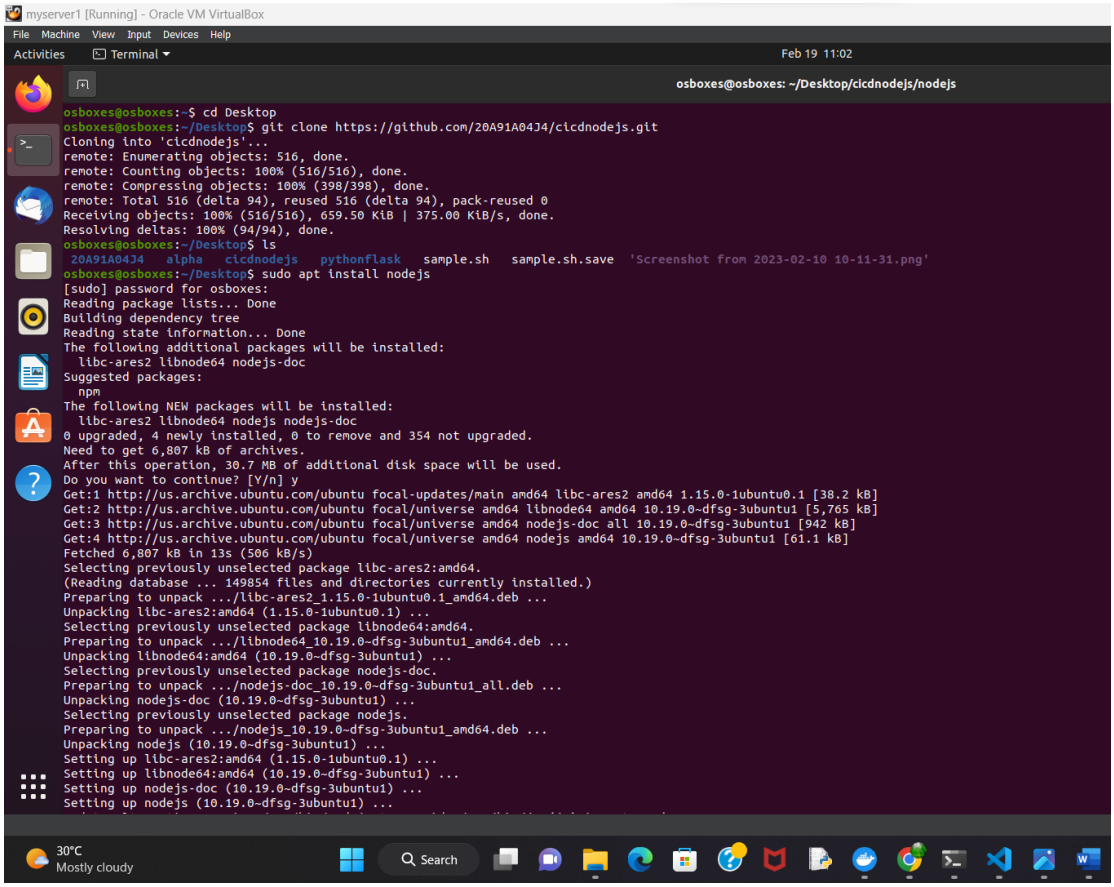




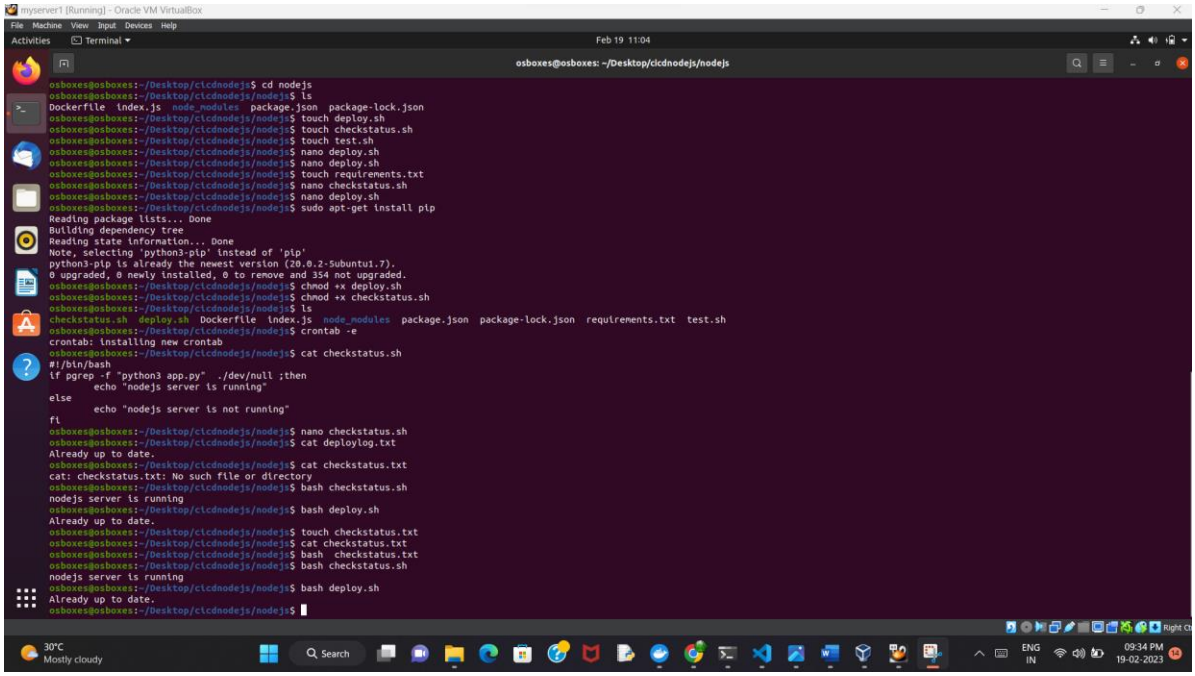
3.PUSHED SUCCESSFULLY TO NEWLY CREATED REPOSITORY



4.CLONING REPOSITORY TO LINUX TERMINAL & NODEJS INSTALLATION

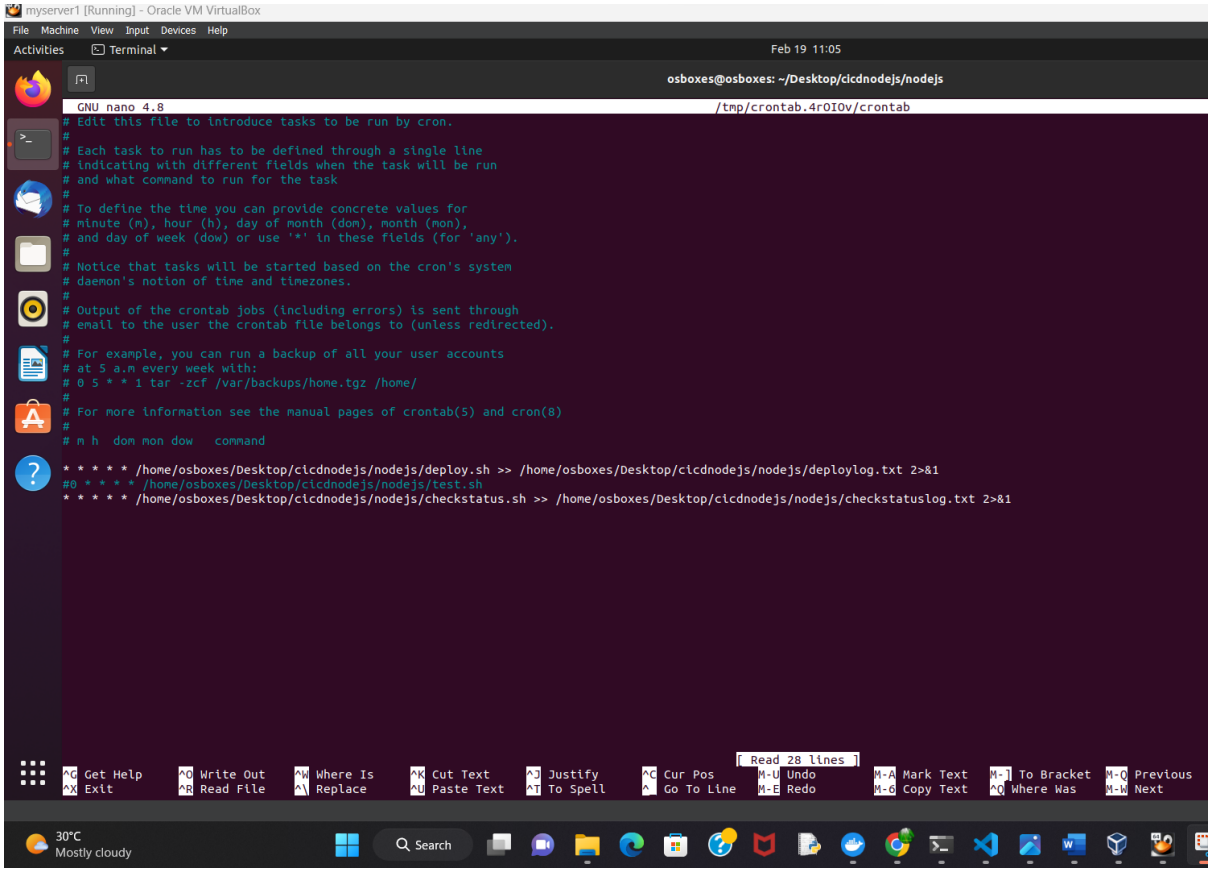


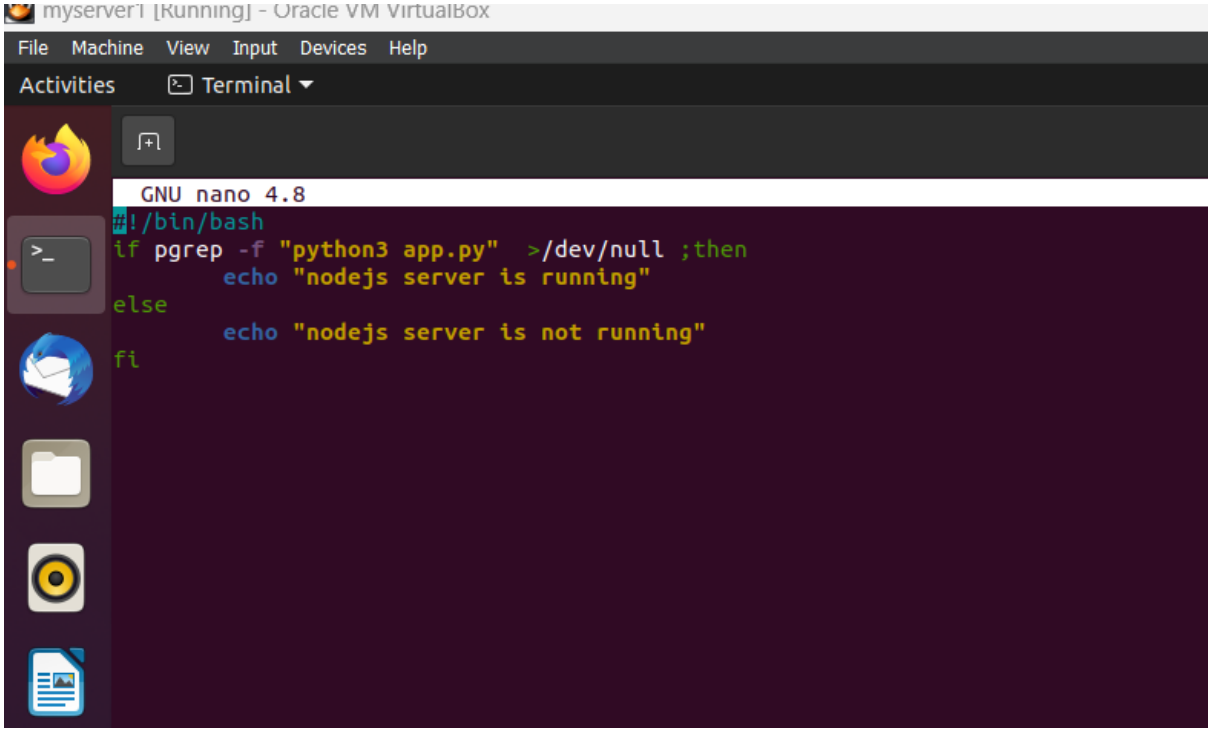
5.CREATING DEPLOY & CHECKSTATUS FILES & CHECKING NODEJS SERVER STATUS



FINALLY NODEJS SERVER IS RUNNING

6.CRONTAB -E




myserver1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
GNU nano 4.8
#!/bin/bash
if pgrep -f "python3 app.py" >/dev/null ;then
echo "nodejs server is running"
else
echo "nodejs server is not running"
fi