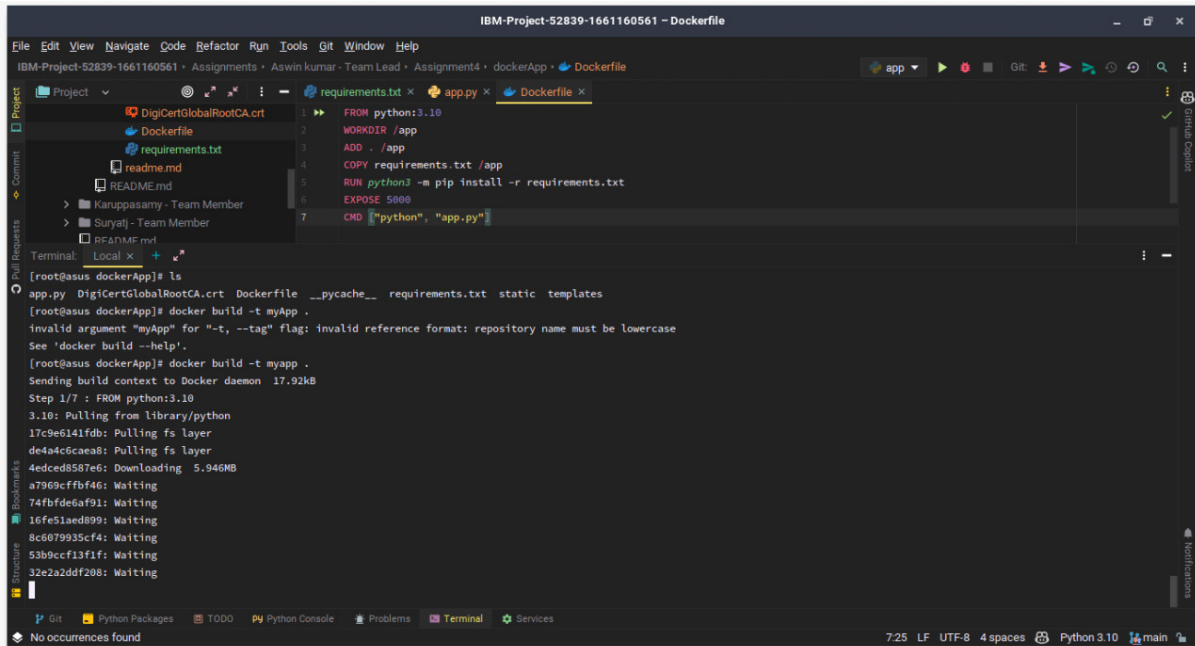


## Assignment -4

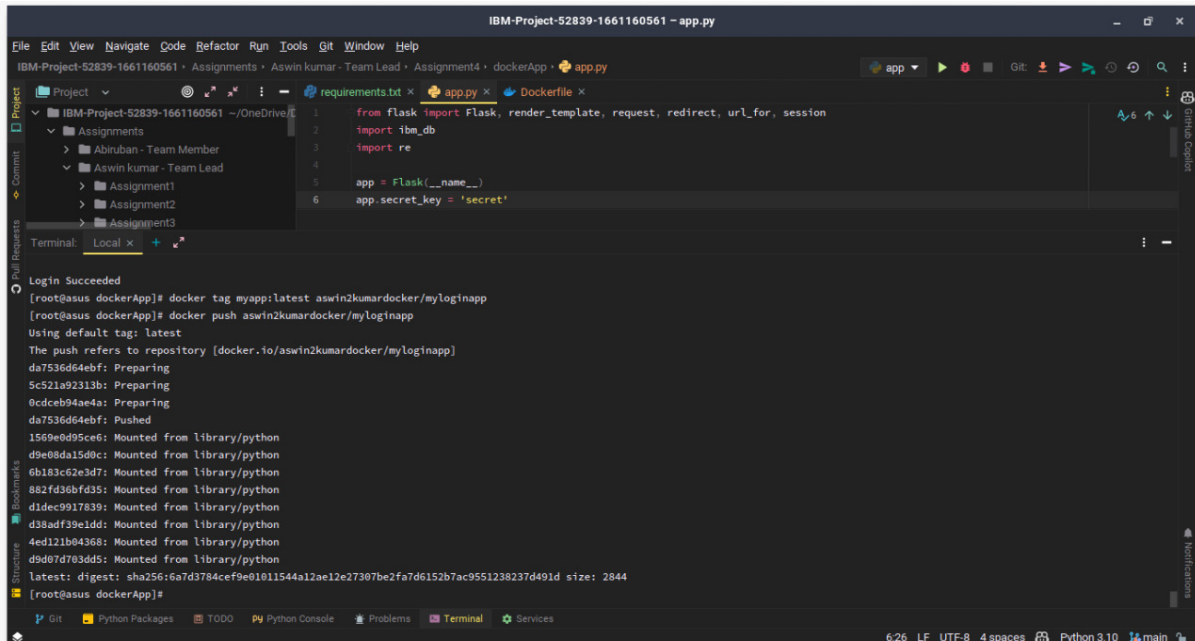
Student Name	T.J.Surya
Student Roll Number	951919CS106
Maximum Marks	2 Marks

### Question-1:

1.Pull an Image from docker hub and run it in docker playground.



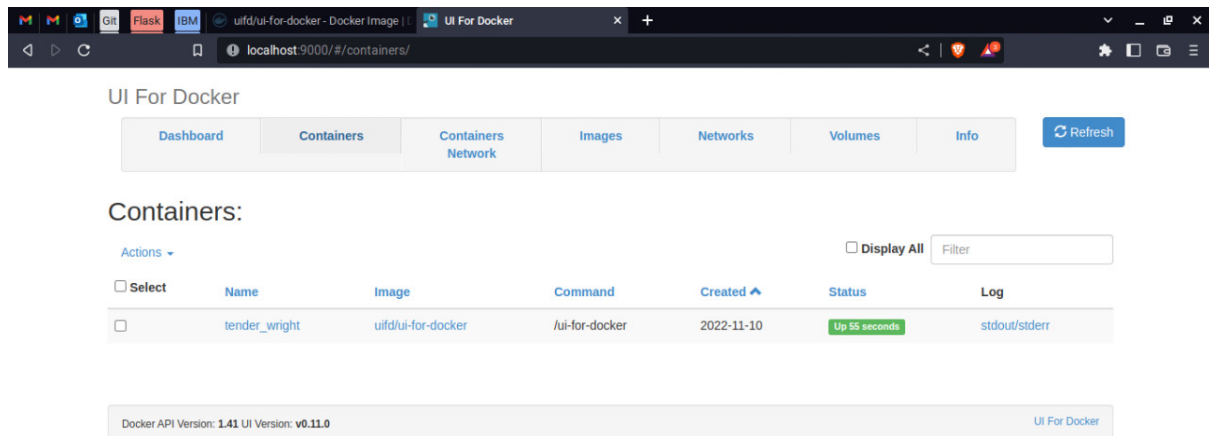
```
IBM-Project-52839-1661160561 - Dockerfile
File Edit View Navigate Code Refactor Run Tools Git Window Help
IBM-Project-52839-1661160561 - Assignments - Aswin kumar - Team Lead - Assignment4 - dockerApp - Dockerfile
Project
  Dockerfile
  requirements.txt
  README.md
  Karuppasamy - Team Member
  SuryaJ - Team Member
  README.md
Terminal
[root@asus dockerApp]# ls
app.py  DigiCertGlobalRootCA.crt  Dockerfile  __pycache__  requirements.txt  static  templates
[root@asus dockerApp]# docker build -t myApp .
Invalid argument "myApp" for "-t, --tag" flag: invalid reference format: repository name must be lowercase
See 'docker build --help'.
[root@asus dockerApp]# docker build -t myapp .
Sending build context to Docker daemon 17.92kB
Step 1/7 : FROM python:3.10
3.10: Pulling from library/python
17c9e6141fdb: Pulling fs layer
de4a4c6caeb8: Pulling fs layer
4edced8587e6: Downloading 5.946MB
a7969c9ffb746: Waiting
74fbfde6a9f1: Waiting
16fe51aed899: Waiting
8c6079935cf4: Waiting
53b9ccf131f1: Waiting
32e2a2ddf208: Waiting
[No occurrences found] 7:25 LF UTF-8 4 spaces Python 3.10 main
```



```
IBM-Project-52839-1661160561 - app.py
File Edit View Navigate Code Refactor Run Tools Git Window Help
IBM-Project-52839-1661160561 - Assignments - Aswin kumar - Team Lead - Assignment4 - dockerApp - app.py
Project
  IBM-Project-52839-1661160561 - OneDrive
  Assignments
    Abiruban - Team Member
    Aswin kumar - Team Lead
      Assignment1
      Assignment2
      Assignment3
  requirements.txt
  app.py
  Dockerfile
Terminal
Login Succeeded
[root@asus dockerApp]# docker tag myapp:latest aswin2kumardocker/myloginapp
[root@asus dockerApp]# docker push aswin2kumardocker/myloginapp
Using default tag: latest
The push refers to repository [docker.io/aswin2kumardocker/myloginapp]
da7536d64ebf: Preparing
5c521a92313b: Preparing
0cdceb94ae4a: Preparing
da7536d64ebf: Pushed
1569e0d95ce6: Mounted from library/python
d9e08da15d0c: Mounted from library/python
6b183c2e3d7: Mounted from library/python
882fd36bf435: Mounted from library/python
d1dec9917839: Mounted from library/python
d38adf39e1dd: Mounted from library/python
4ed121b04368: Mounted from library/python
d9d07d703dd5: Mounted from library/python
latest: digest: sha256:6a7d3784cef9e01811544a12ae12e27307be2fa7d6152b7ac9551238237d491d size: 2844
[root@asus dockerApp]# [6:26 LF UTF-8 4 spaces Python 3.10 main]
```

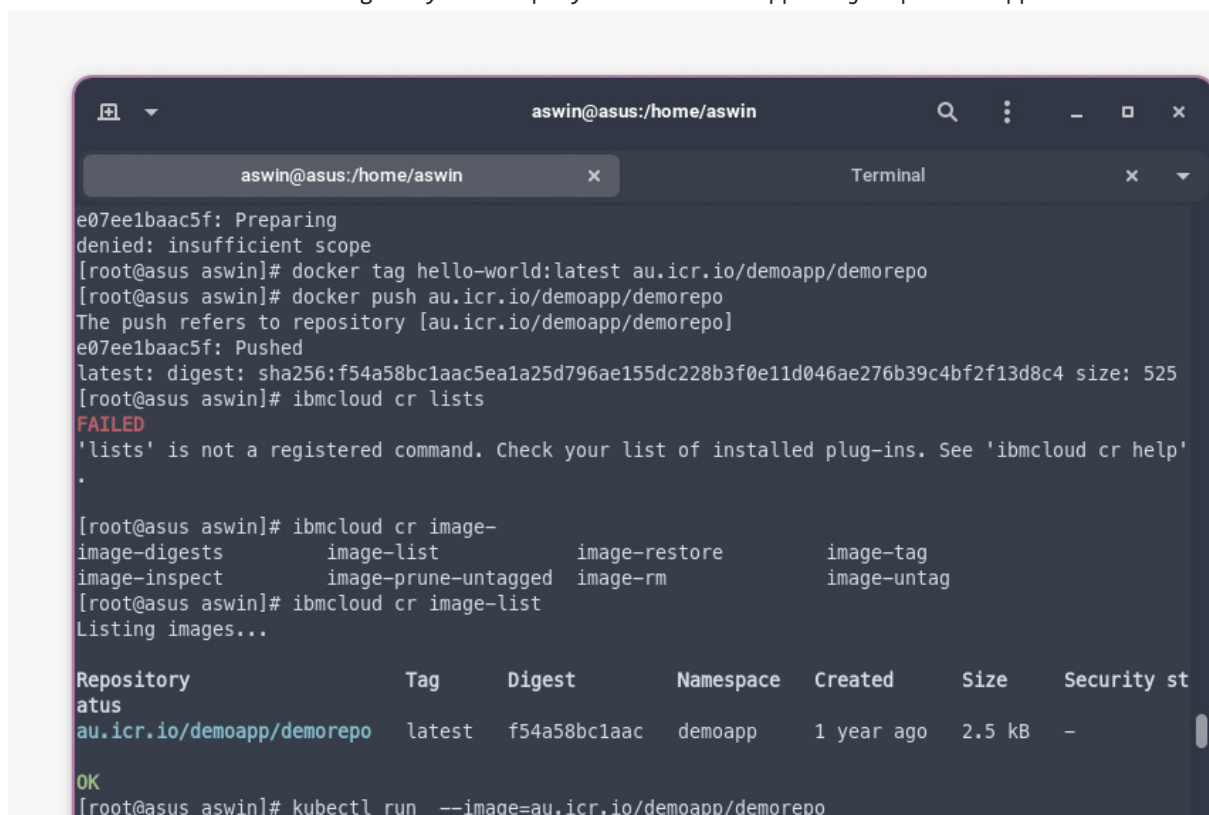
## Question-2:

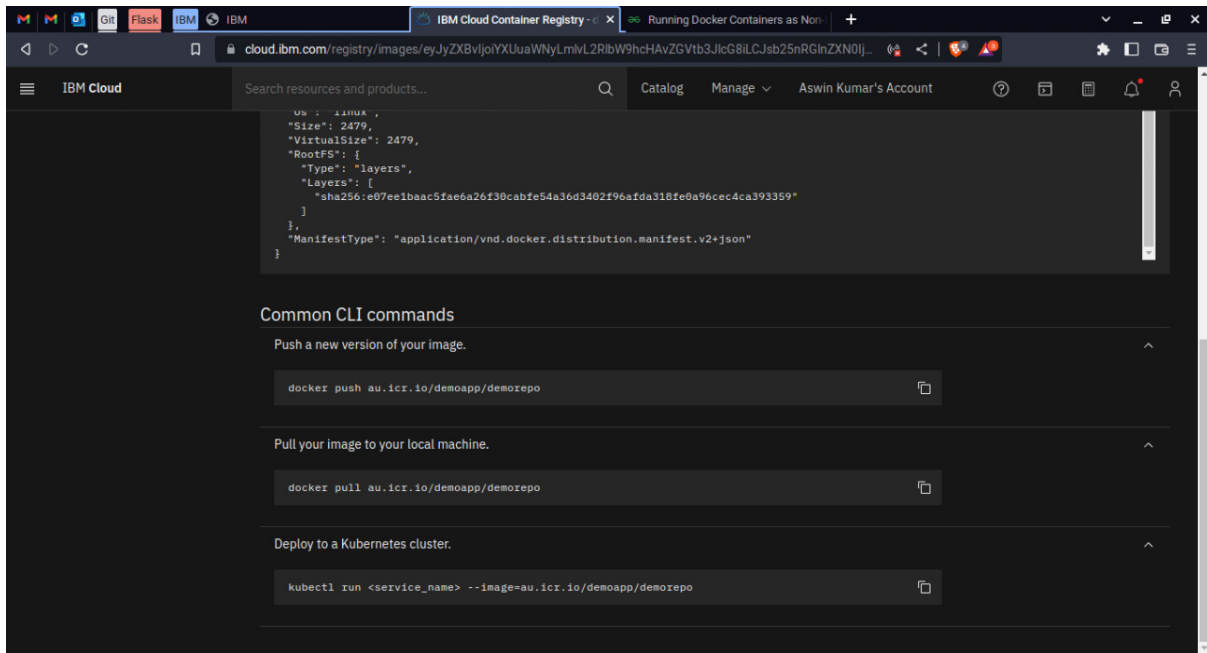
2.Create a docker file for the jobportal application and deploy it in Docker desktop application.



## Question-3:

3.Create a IBM container registry and deploy hello world app or job portal app.





#### Question-4:

4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

