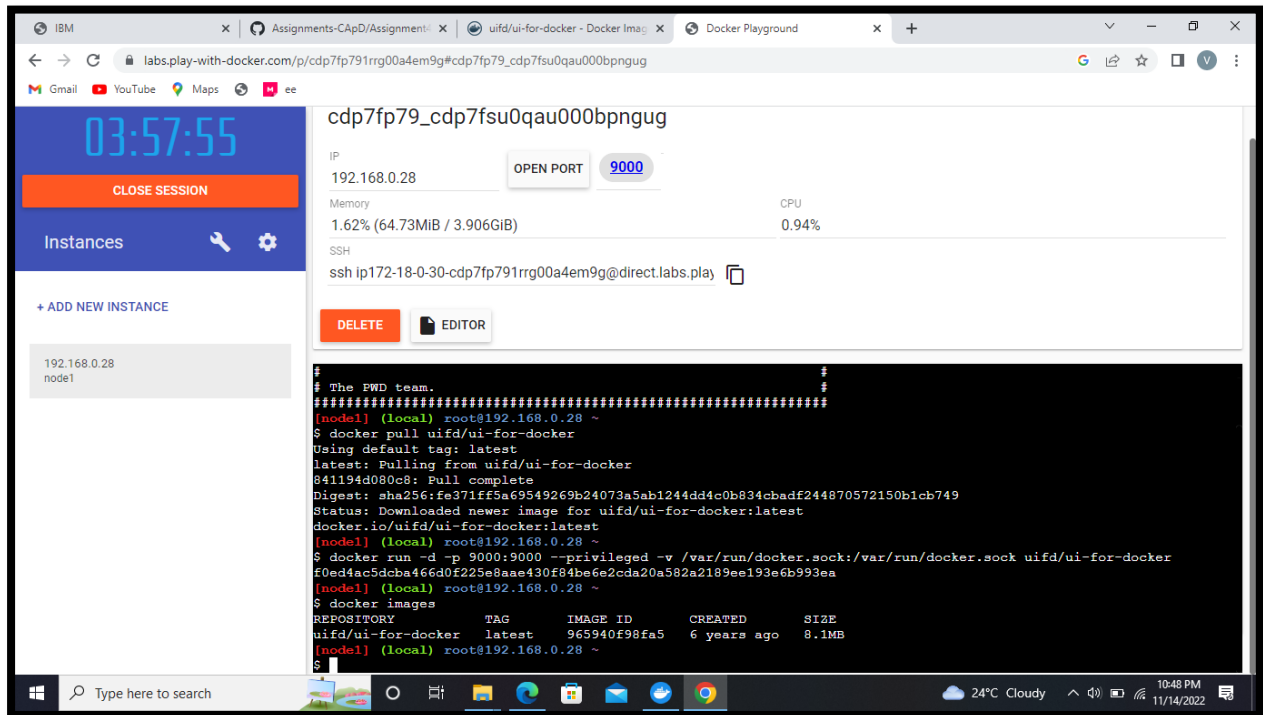


Assignment -4

Assignment Date	10 October 2022
Student Name	R.VASIM AKRAM
Student Roll Number	814619104021
Maximum Marks	2 Marks

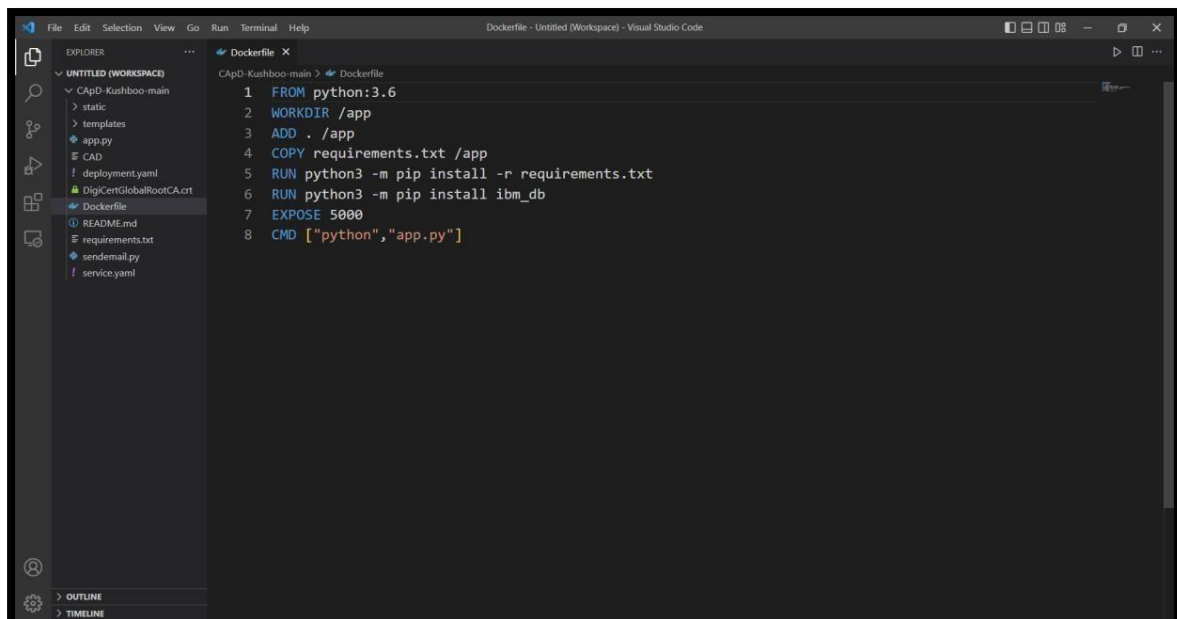
Question 1:

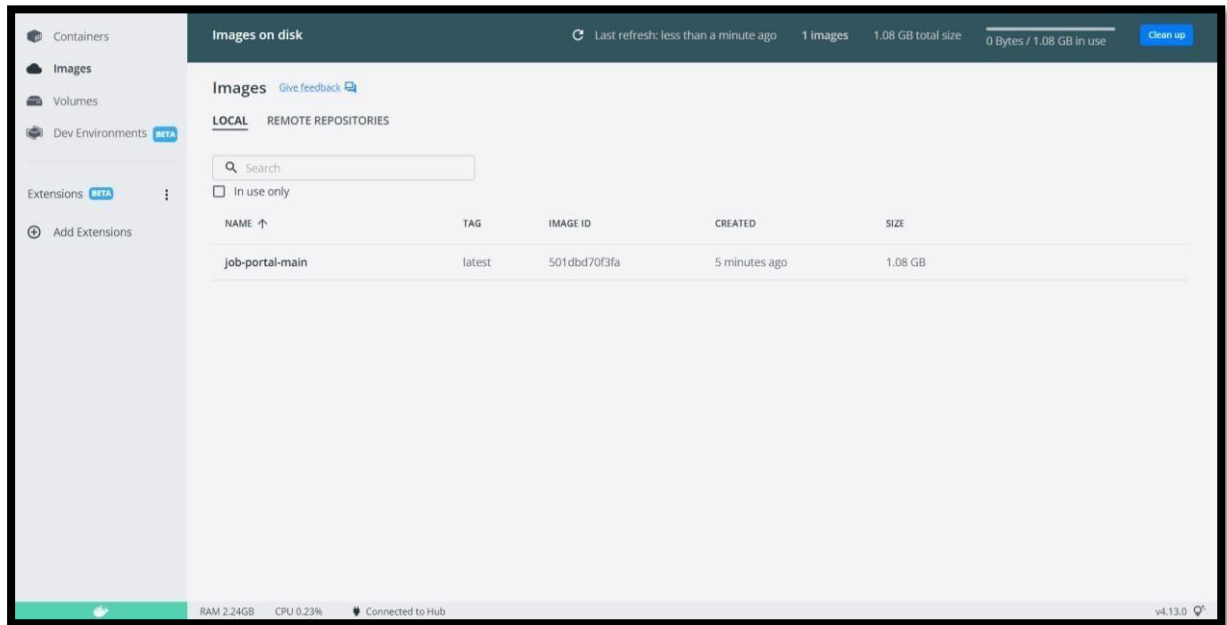
1. Pull an Image from docker hub and run it in docker playground



Question 2:

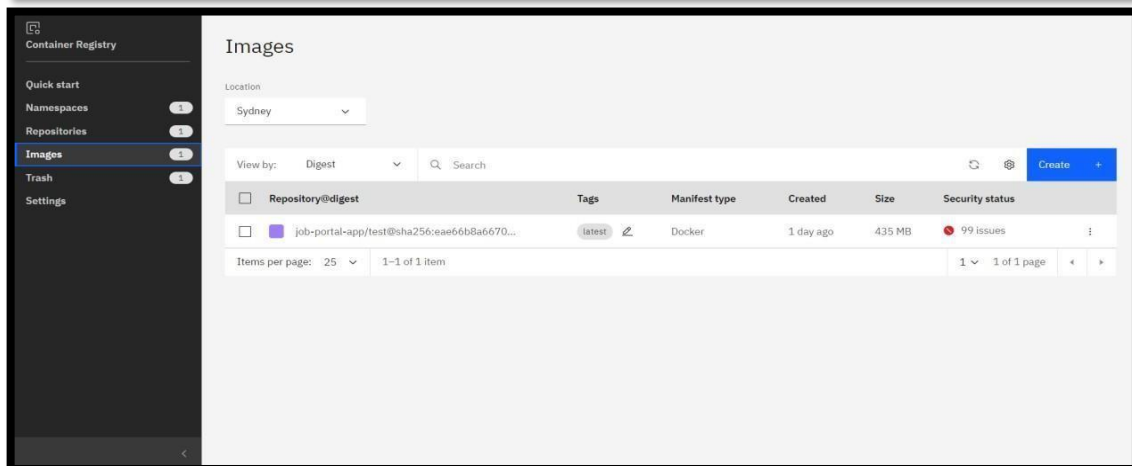
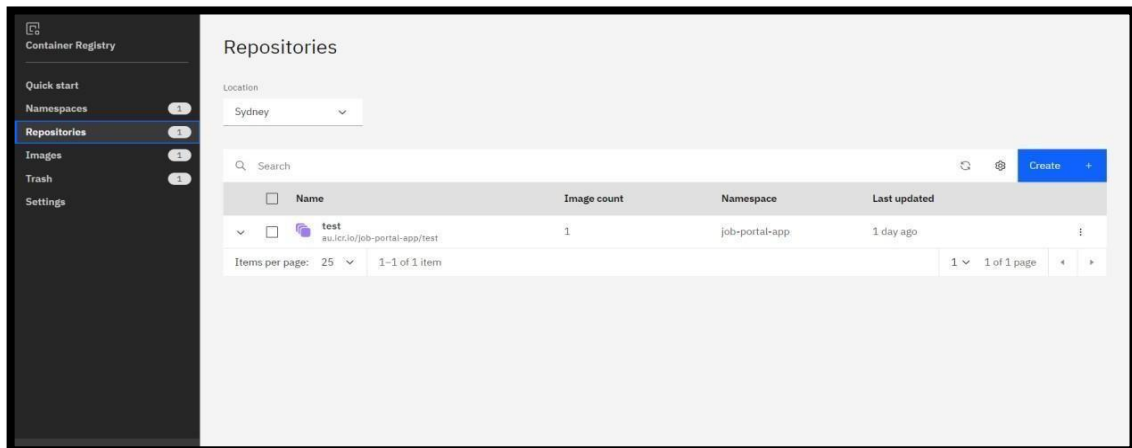
2. Create a docker file for the job portal application and deploy it in Docker desktop application.





Question 3:

3. Create a IBM container registry and deploy helloworld app or jobportalapp.



```
Command Prompt - docker run -p 5000:5000 au.icr.io/job-portal-app/test

C:\Users\user>docker push job-portal-main au.icr.io/job-portal-app/test
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage:  docker push [OPTIONS] NAME[:TAG]


Push an image or a repository to a registry

C:\Users\user>docker tag job-portal-main au.icr.io/job-portal-app/test

C:\Users\user>docker push au.icr.io/job-portal-app/test
Using default tag: latest
The push refers to repository [au.icr.io/job-portal-app/test]
90ff7e020340: Mounted from job-portal-app/testrepo
3eb3c3cfa0b: Mounted from job-portal-app/testrepo
4667e093b201: Mounted from job-portal-app/testrepo
a34f7e8dcb45: Mounted from job-portal-app/testrepo
78945357bd11: Mounted from job-portal-app/testrepo
aa4c988c19f6: Mounted from job-portal-app/testrepo
8ba9f690e8ba: Mounted from job-portal-app/testrepo
3e007d59ef9f: Mounted from job-portal-app/testrepo
1e18e7ef1cc2: Mounted from job-portal-app/testrepo
c3a0d93ed7d1: Mounted from job-portal-app/testrepo
26a504e63be4: Mounted from job-portal-app/testrepo
8bf42db0de72: Mounted from job-portal-app/testrepo
31892cc314cb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae66b0a667b0d0f8f4abfab2b0d0acc277b93348a54e0755caa586242ba2c01b size: 3259

C:\Users\user>docker pull au.icr.io/job-portal-app/test
Using default tag: latest
latest: Pulling from job-portal-app/test
Digest: sha256:eae66b0a667b0d0f8f4abfab2b0d0acc277b93348a54e0755caa586242ba2c01b
Status: Image is up to date for au.icr.io/job-portal-app/test:latest
au.icr.io/job-portal-app/test:latest

C:\Users\user>docker run -p 5000:5000 au.icr.io/job-portal-app/test
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
```



LOGINREGISTERCONTACT US

Aboutus

Mission

SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .

Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates

JobPortal

Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

Get in Touch

- jobportal@gmail.com
- +91 8977787657

Question 4:

4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and expose the same app to run in node port.

The screenshot displays the IBM Cloud mycluster-free dashboard. At the top, the cluster name 'mycluster-free' is shown with a 'Normal' status and a warning 'Expires in 30 days'. The left sidebar contains navigation links: Overview, Worker nodes, Worker pools, and DevOps (marked as 'New'). The main content area features a 'Node status' card showing '1 of 1' nodes in 'Normal' status. Below this, a 'Details' section provides cluster information: Cluster ID 'cdd9137f0h7ksau5200', Version '1.23.13_1550', Infrastructure 'Classic', and Zones 'Milan 01'. Other details include the creation time '27/10/2022, 7:37 pm', Resource group 'Default', and an 'Image security enforcement' toggle set to 'Enable'. A 'Node health' section is visible at the bottom.

The screenshot shows the JobPortal website. The header includes the 'sheep-logo' and navigation links for 'LOGIN', 'REGISTER', and 'CONTACT US'. The main content area is titled 'Aboutus' and contains three columns: 'Mission' (describing SMARTBRIDGE's vision to bridge academia and industry), 'Vission' (describing the main objective to bridge industry standards and academia), and 'Objective' (describing career guidance programs). Below these columns, there are two sections: 'JobPortal' with placeholder text and 'Get in Touch' with contact information: 'jobportal@gmail.com' and '+91 8977787657'.