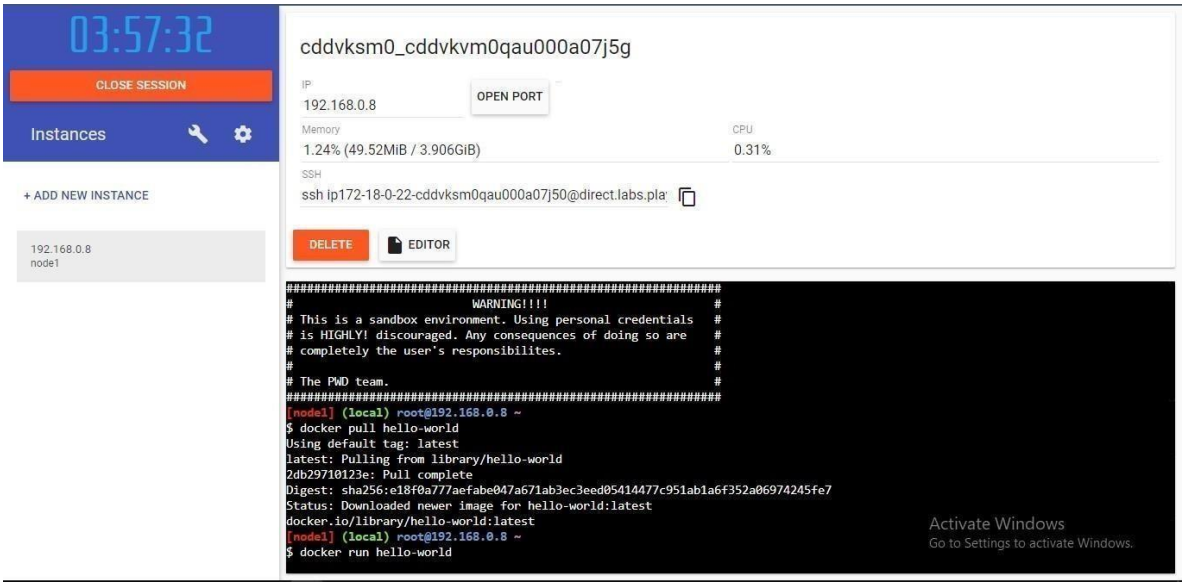
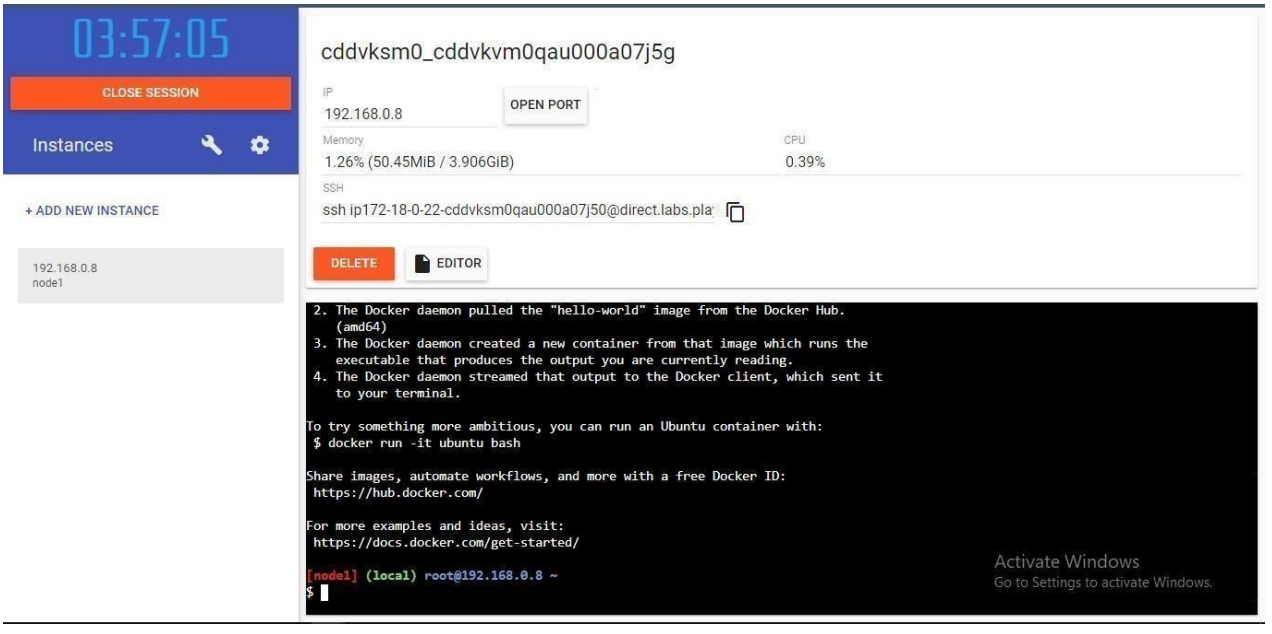
Assignment -4

Assignment Date	3 November 2022
Student Name	Ajithkumar S
Student Roll Number	720719110029
Maximum Marks	2 Marks

Question 1:

Pull an image from Docker hub and run it in Docker playground.





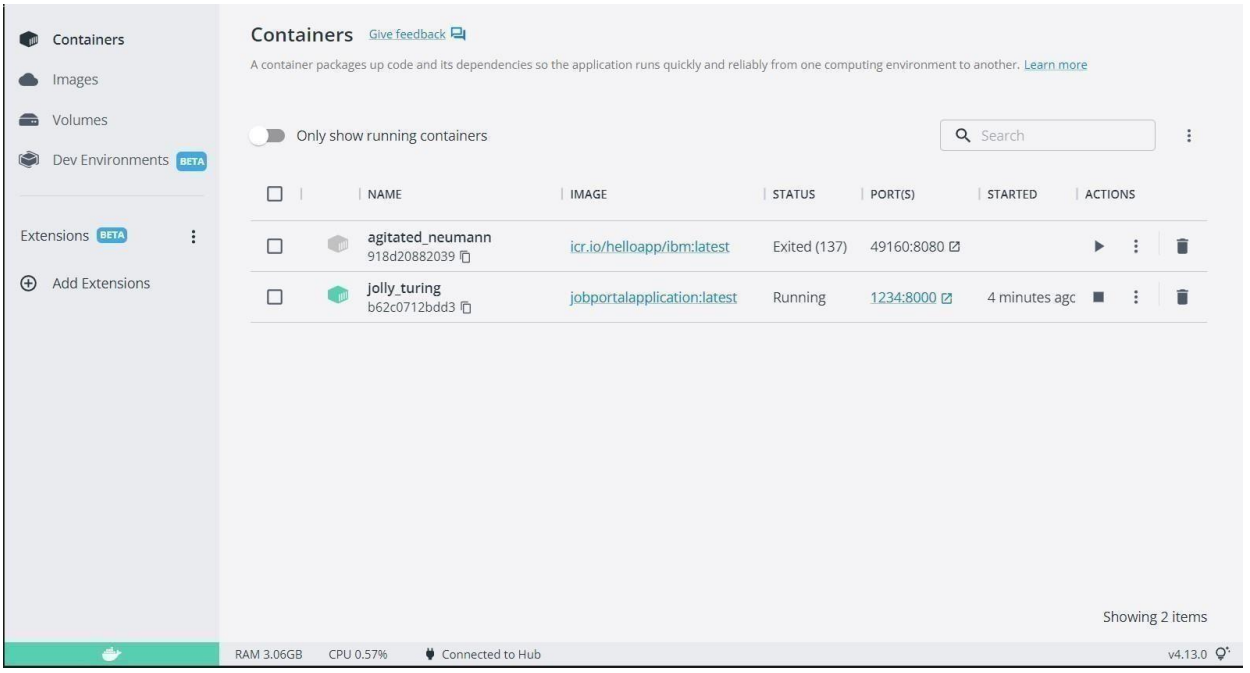
QUESTION 2:

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

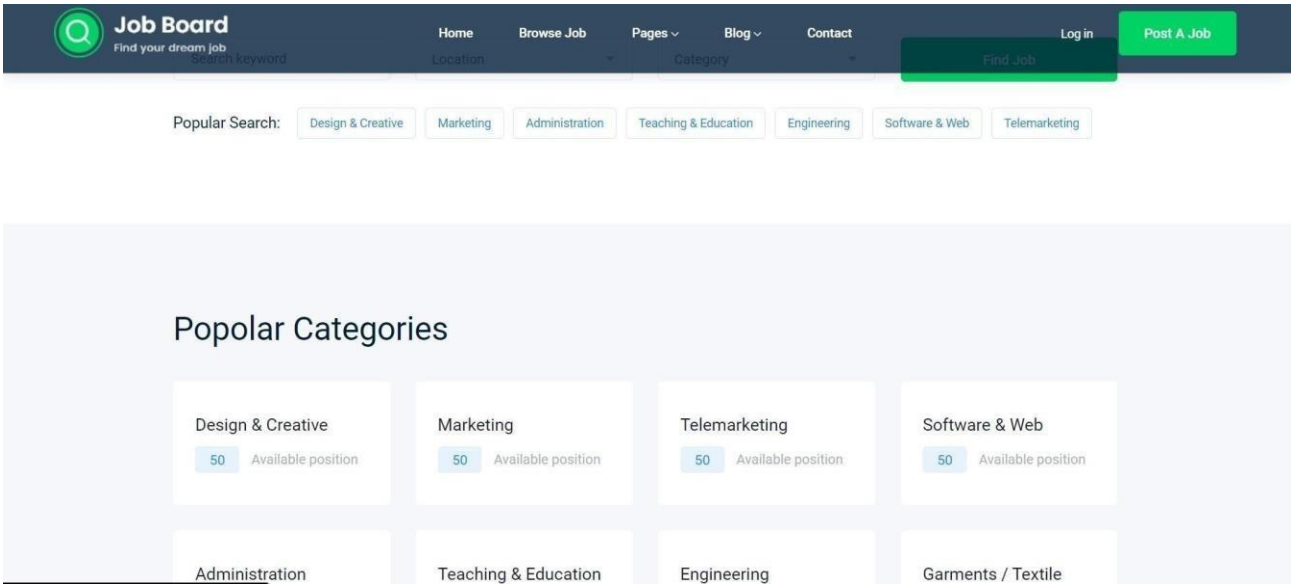
DOCKER FILE:

```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8000

RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:



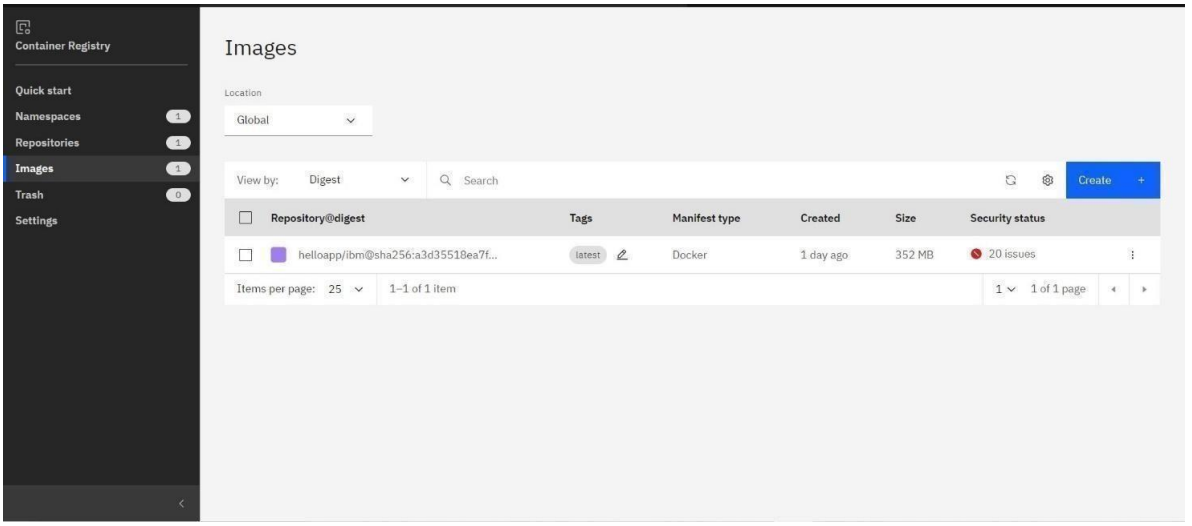
OUTPUT:



QUESTION-3:

Create a IBM container registry and deploy hello-world app or jobportal app.

CONTAINER REGISTRY DEPLOYMENT:

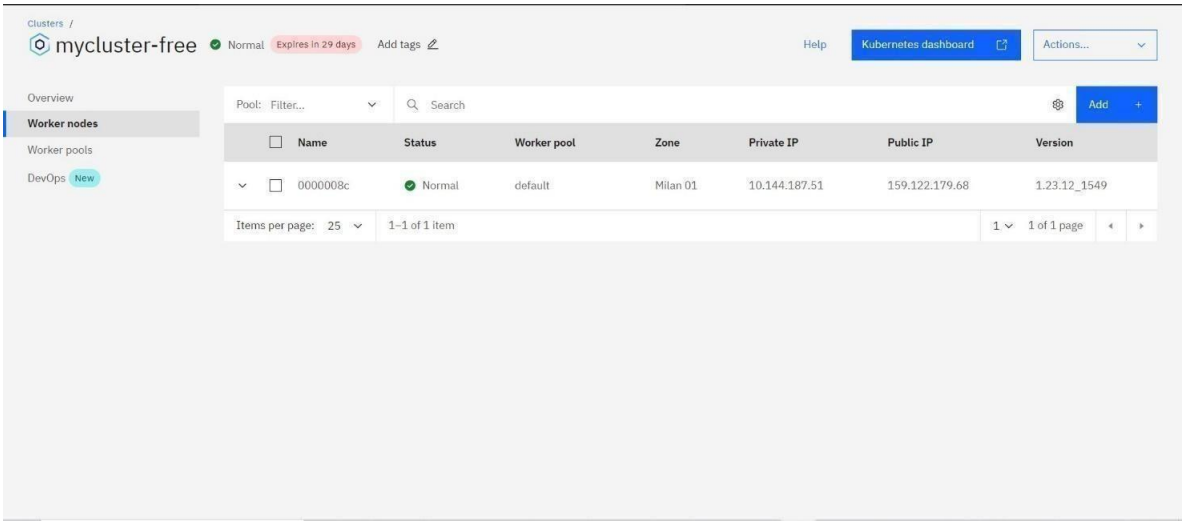


OUTPUT:

QUESTION-4:

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

CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODE PART:


Clusters /
mycluster-free
Normal
Expires in 29 days
Add tags
Help
Kubernetes dashboard
Actions...
Overview
Worker nodes
Worker pools
DevOps
New
Pool: Filter...
Search
Add
Name
Status
Worker pool
Zone
Private IP
Public IP
Version
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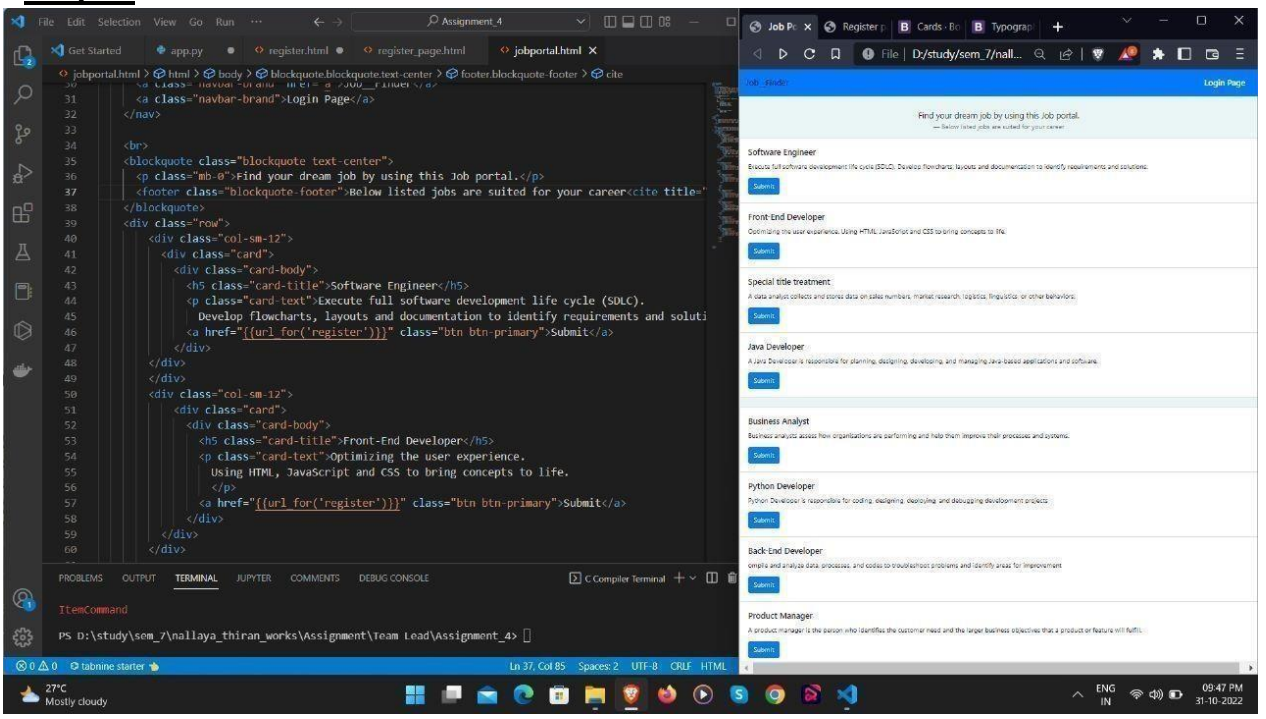
Normal
default
Milan 01
10.144.187.51
159.122.179.68
1.23.12_1549
Items per page: 25
1–1 of 1 item
1 of 1 page

Output:


File Edit Selection View Go Run
Assignment_4
Get Started
app.py
register.html
register_page.html
jobportal.html
Login Page

<blockquote class="blockquote text-center">
Find your dream job by using this Job portal.
<footer class="blockquote-footer">Below listed jobs are suited for your career
</blockquote>

<h5 class="card-title">Software Engineer</h5>
Execute full software development life cycle (SDLC).
Develop flowcharts, layouts and documentation to identify requirements and soluti
Submit
<h5 class="card-title">Front-End Developer</h5>
Optimizing the user experience.
Using HTML, JavaScript and CSS to bring concepts to life.
PROBLEMS OUTPUT TERMINAL JUPYTER COMMENTS DEBUG CONSOLE
C Compiler Terminal
ItemCommand
PS D:\study\sem_7\nallaya_thiran_works\Assignment\Team Lead\Assignment_4>
Ln 37, Col 85 Spaces: 2 UTF-8 CRLF HTML
tabnine starter
Job Portal
Login Page
Find your dream job by using this Job portal.
Below listed jobs are suited for your career
Software Engineer
Execute full software development life cycle (SDLC). Develop flowcharts, layouts and documentation to identify requirements and solutions.
Submit
Front-End Developer
Optimizing the user experience. Using HTML, JavaScript and CSS to bring concepts to life.
Submit
Special title treatment
A data analyst collects and stores data on sales numbers, market research, logistics, linguistics, or other behaviors.
Submit
Java Developer
A Java Developer is responsible for planning, designing, developing, and managing Java-based applications and software.
Submit
Business Analyst
Business analysts assess how organizations are performing and help them improve their processes and systems.
Submit
Python Developer
Python Developer is responsible for coding, designing, deploying, and debugging development projects.
Submit
Back-End Developer
compile and analyze data, processes, and codes to troubleshoot problems and identify areas for improvement
Submit
Product Manager
A product manager is the person who identifies the customer need and the larger business objectives that a product or feature will fulfill.
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31-10-2022