# Assignment- 4

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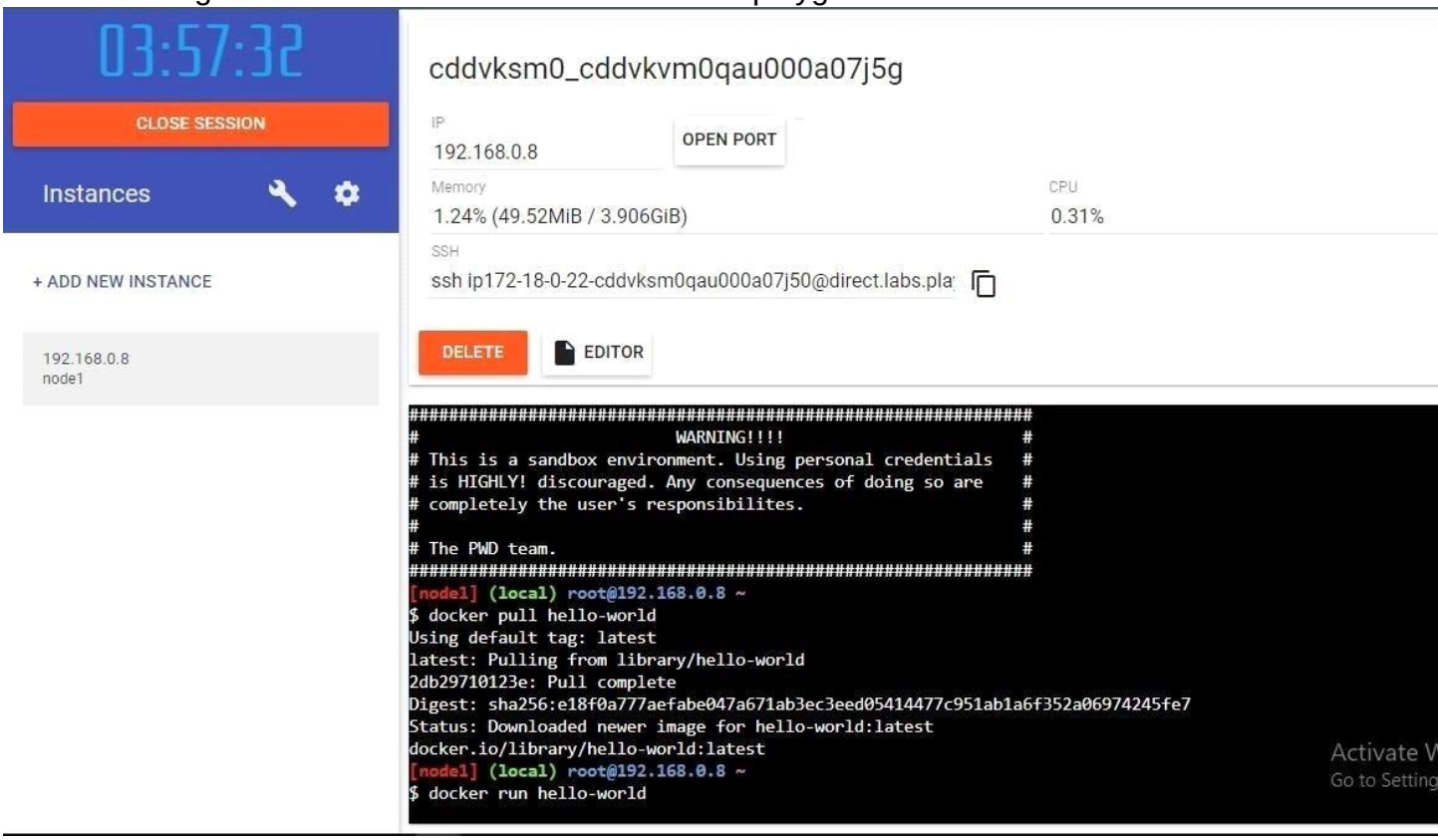
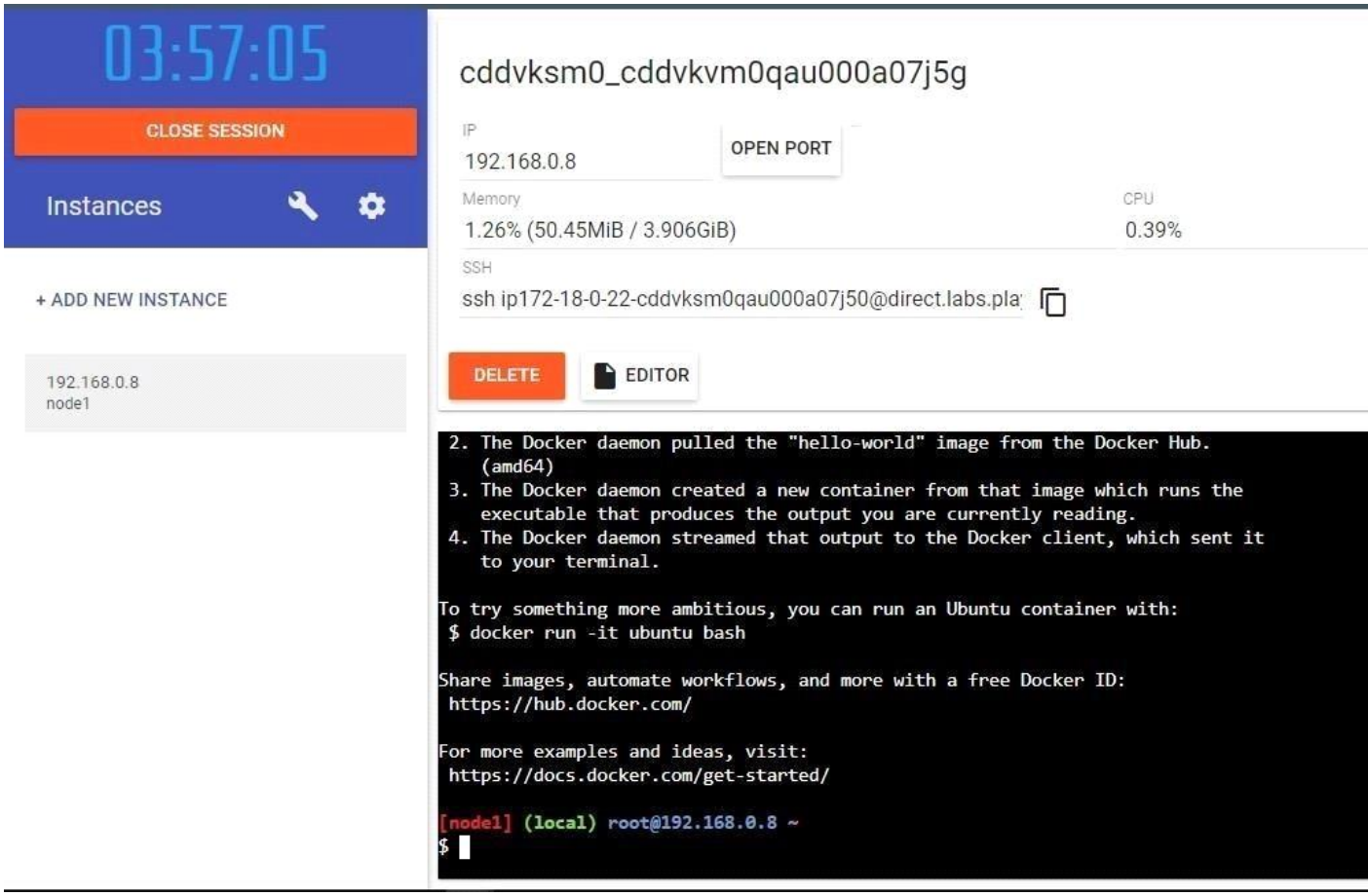
|---|---|
| Assignment Date | 30 October 2022 |
| Student Name | Kiranbabu AR |
| Student Roll Number | 311019104038 |
| Maximum Marks | 2 Marks |

Question 1:

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

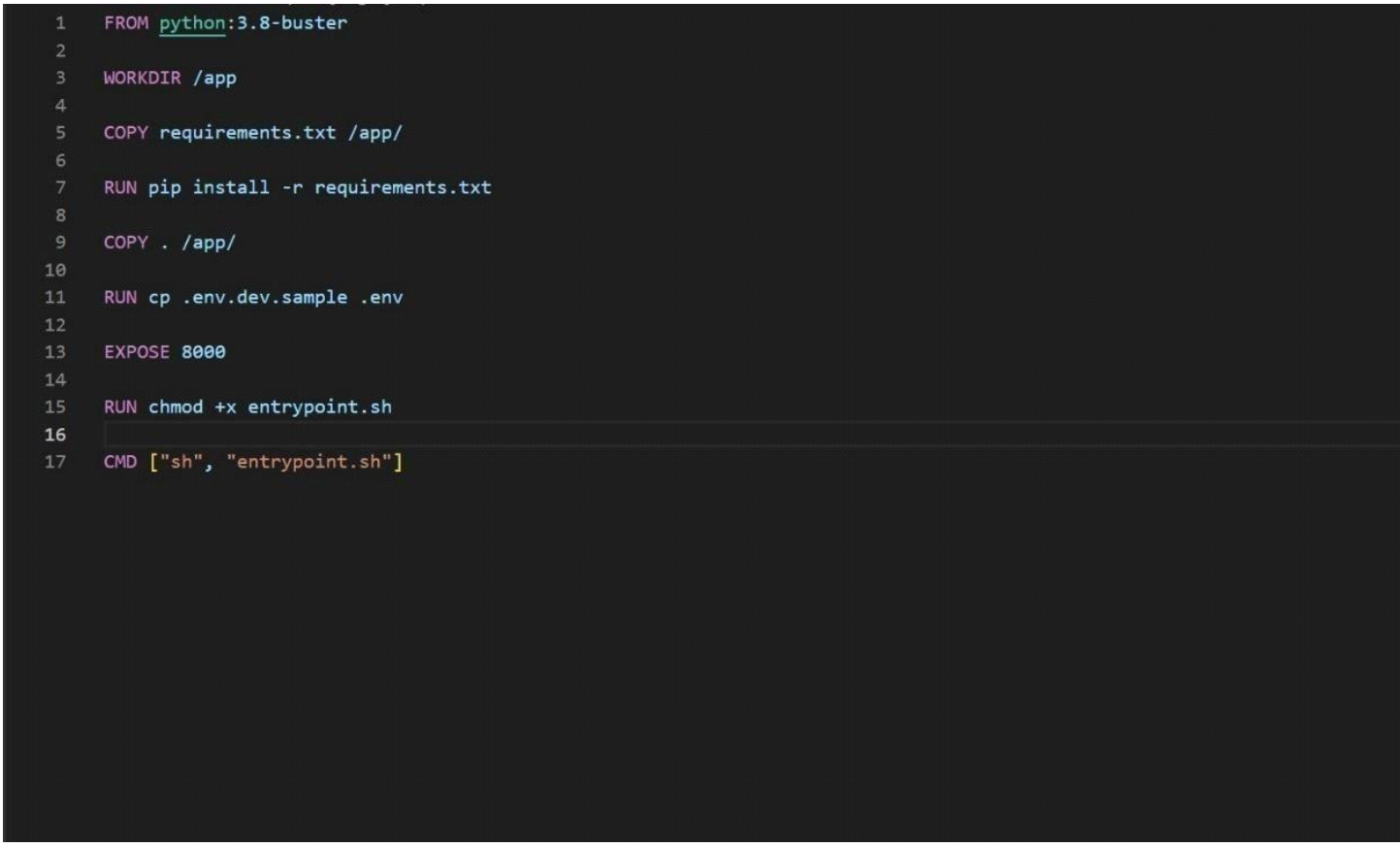





Question 2:

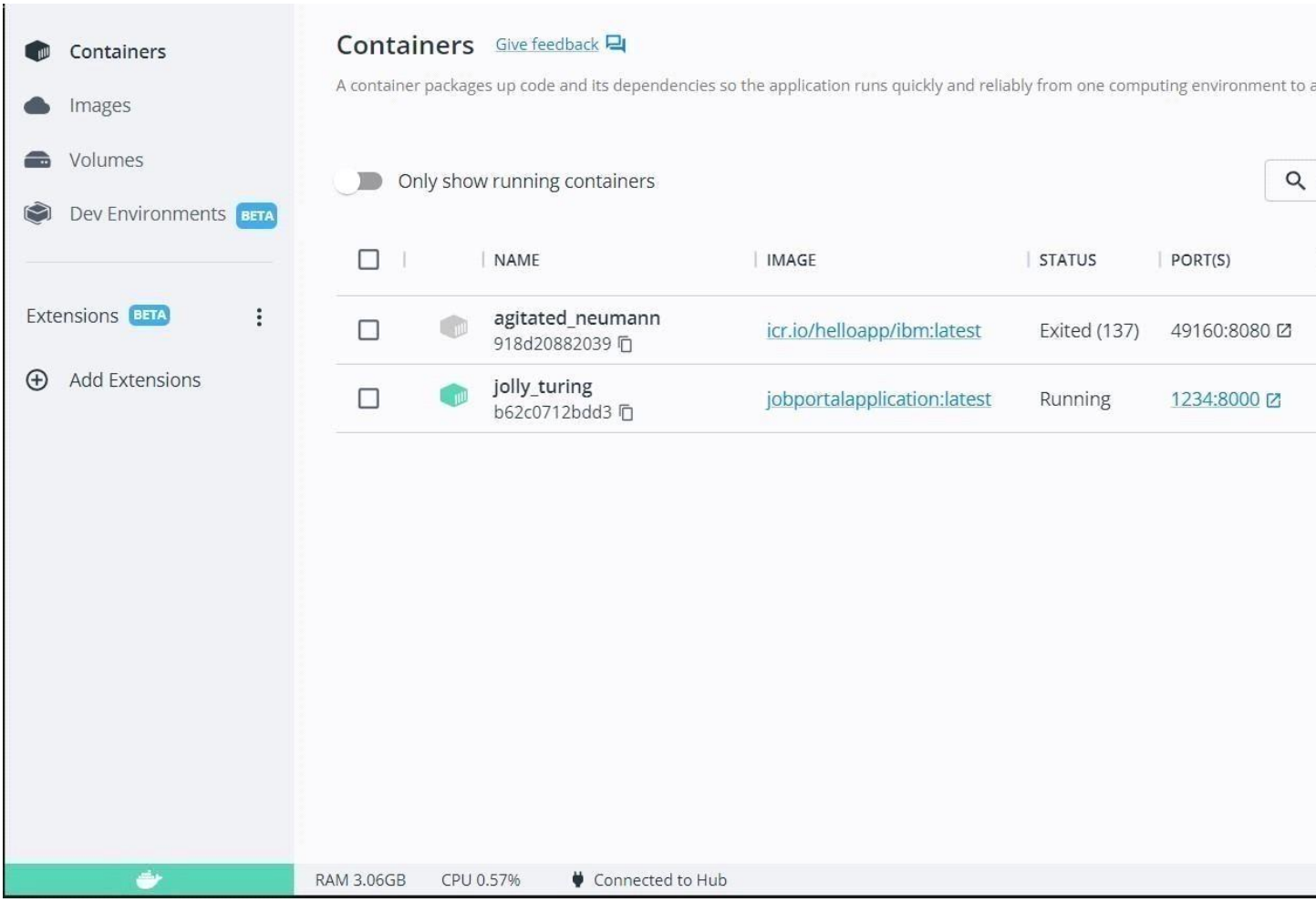
Create a docker file for the job portal application and deploy it in Docker desktopapplication.

DOCKER FILE:

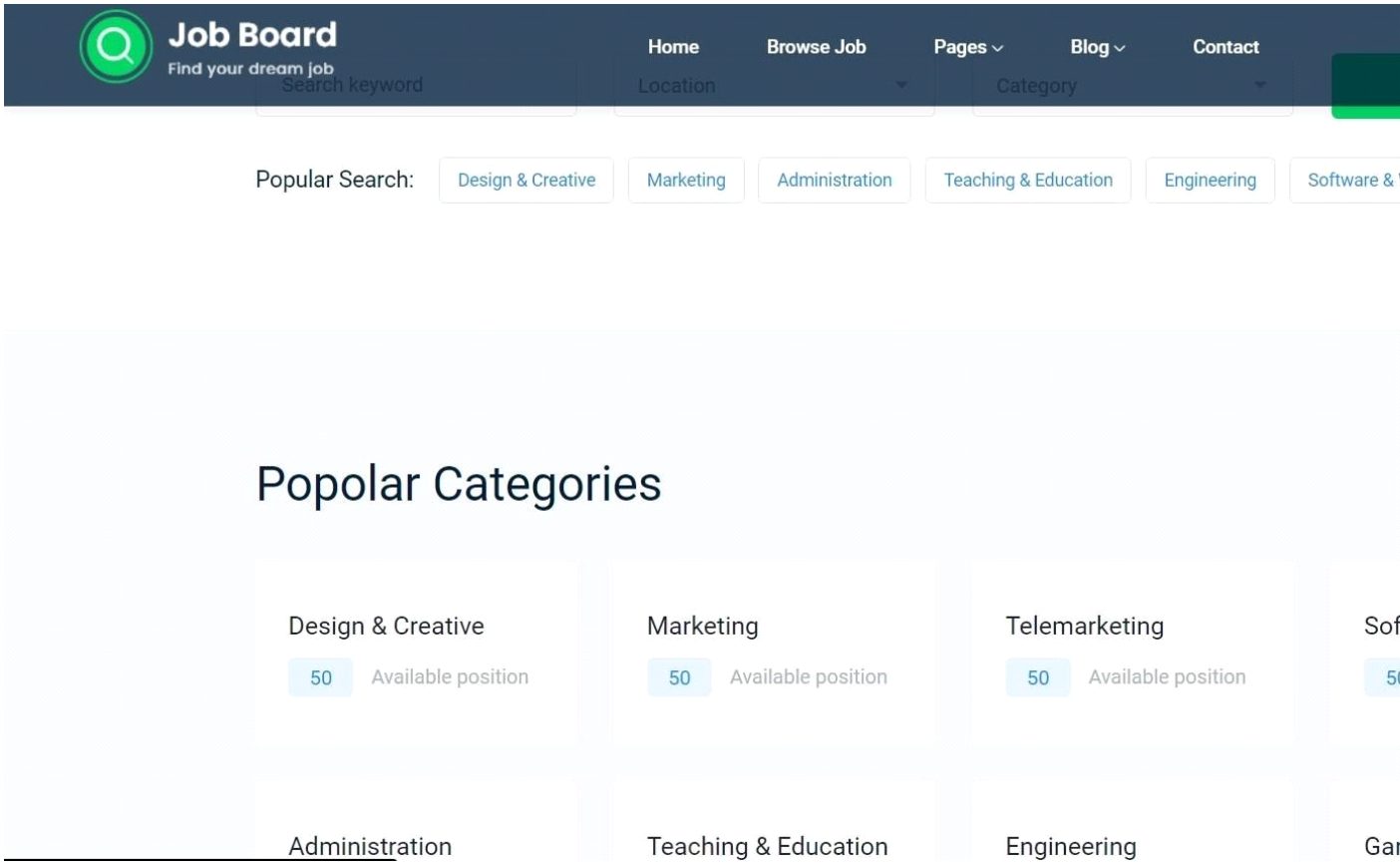


```
FROM python:3.8-buster

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:


Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to a
Only show running containers
NAME
IMAGE
STATUS
PORT(S)
agitated_neumann
918d20882039
icr.io/helloapp/ibm:latest
Exited (137)
49160:8080
jolly_turing
b62c0712bdd3
jobportalapplication:latest
Running
1234:8000
RAM 3.06GB
CPU 0.57%
Connected to Hub

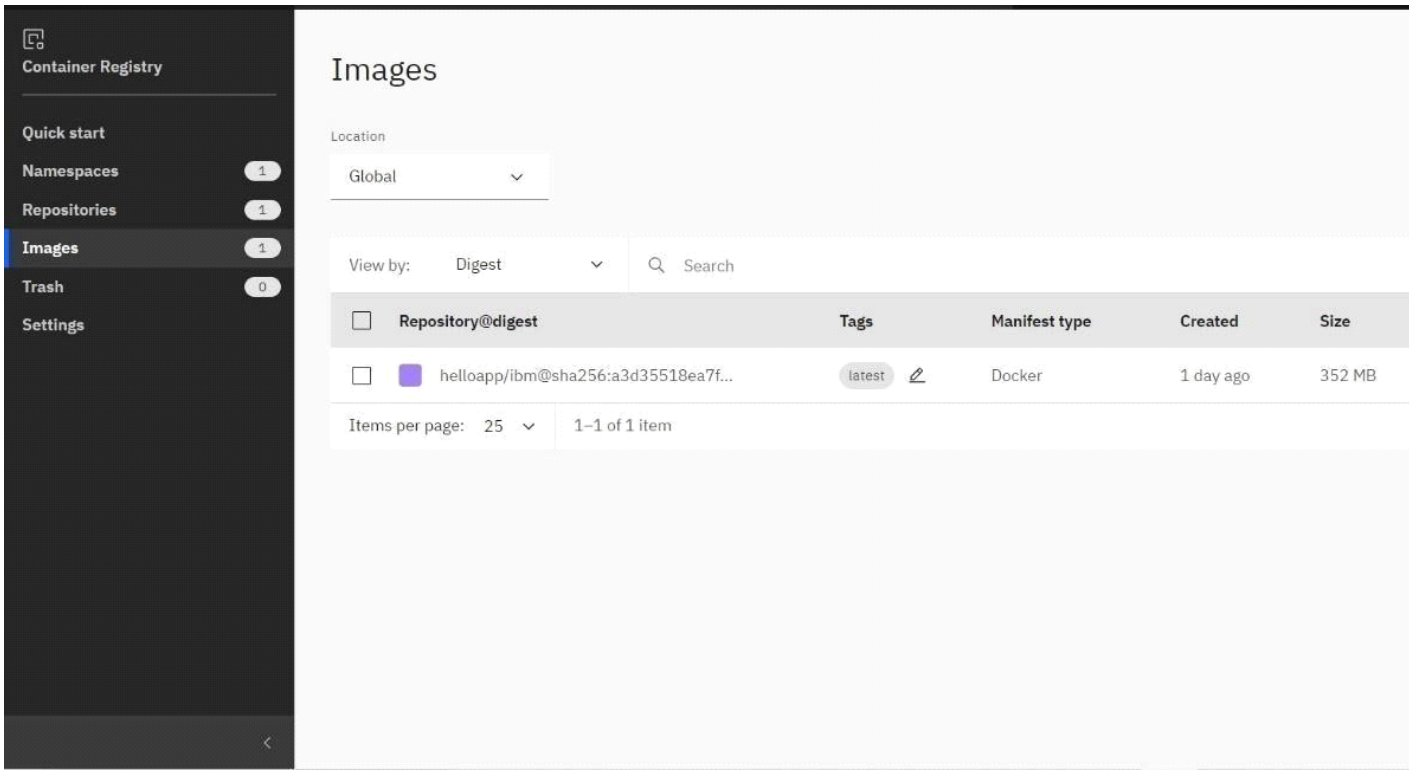
OUTPUT:



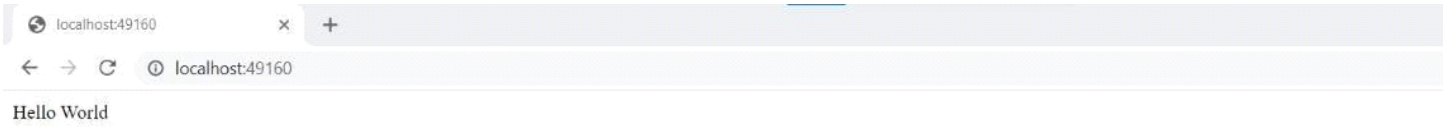

Question 3:

Create a IBM container registry and deploy hello-world app or job port

app.IBM CONTAINER REGISTRY DEPLOYMENT:


Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Images
Location
Global
View by: Digest
Search
Repository@digest
Tags
Manifest type
Created
Size
helloapp/ibm@sha256:a3d35518ea7f...
latest
Docker
1 day ago
352 MB
Items per page: 25
1–1 of 1 item

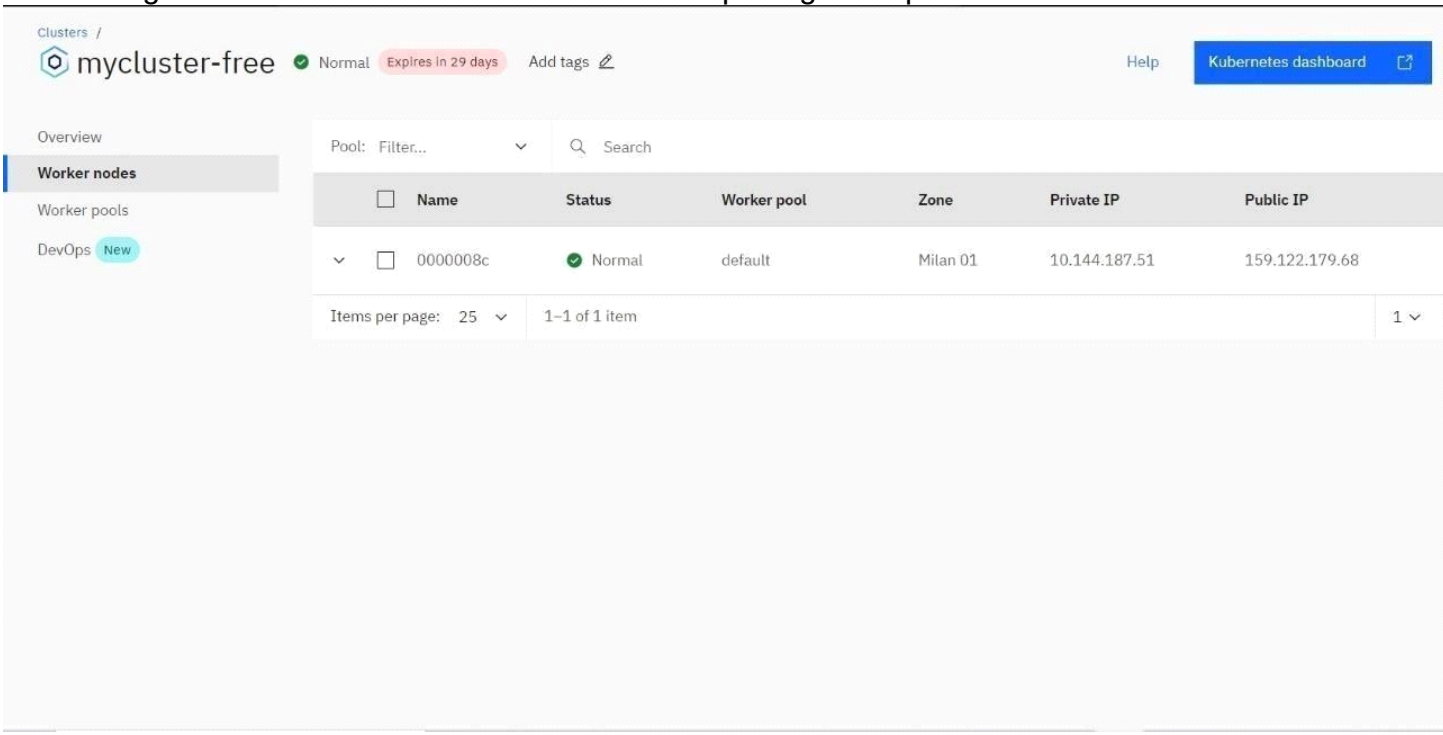
OUTPUT:


localhost:49160
localhost:49160
Hello World

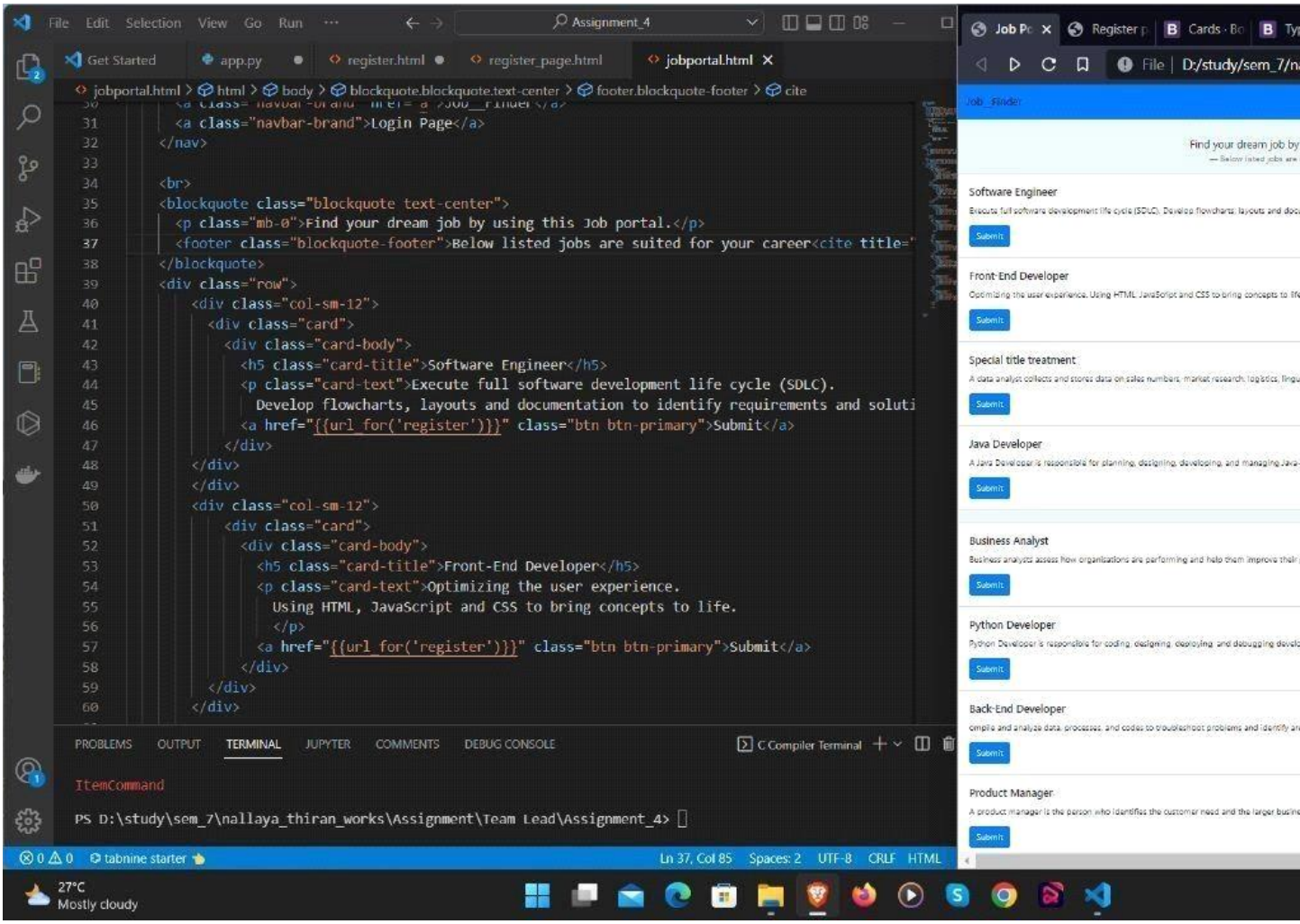
Question 4:

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 port:




Output:


File Edit Selection View Go Run
Assignment_4
Get Started
app.py
register.html
register_page.html
jobportal.html
jobportal.html > html > body > blockquote.blockquote.text-center > footer.blockquote-footer > cite
<a class="navbar-brand">Login Page</a>
</nav>
<br>
<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<cite title="
</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
<a href="{{url_for('register')}}" class="btn btn-primary">Submit</a>

<h5 class="card-title">Front-End Developer</h5>
Optimizing the user experience.
Using HTML, JavaScript and CSS to bring concepts to life.

<a href="{{url_for('register')}}" class="btn btn-primary">Submit</a>

PROBLEMS OUTPUT TERMINAL JUPYTER COMMENTS DEBUG CONSOLE
C Compiler Terminal
ItemCommand
PS D:\study\sem_7\nallaya_thiran_works\Assignment\Team Lead\Assignment_4>
0 0 tabnine starter
Ln 37, Col 85 Spaces: 2 UTF-8 CRLF HTML
Job Po
Register p
Cards - Bo
File | D:/study/sem_7/n
Job_Finder
Find your dream job by
Software Engineer
Submit
Front-End Developer
Submit
Special title treatment
Submit
Java Developer
Submit
Business Analyst
Submit
Python Developer
Submit
Back-End Developer
Submit
Product Manager
Submit
27°C
Mostly cloudy