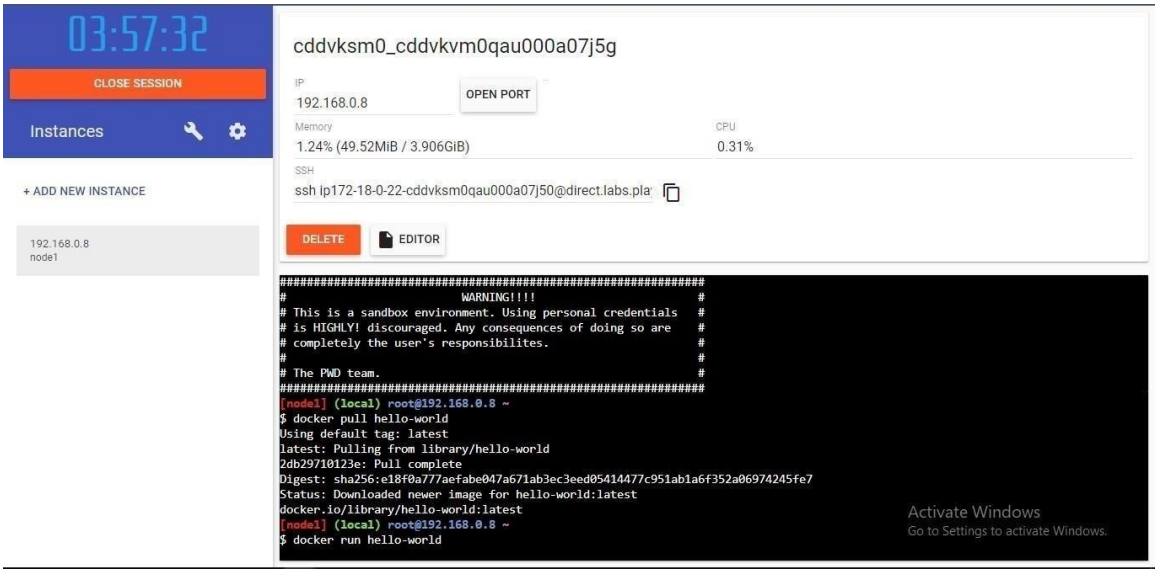
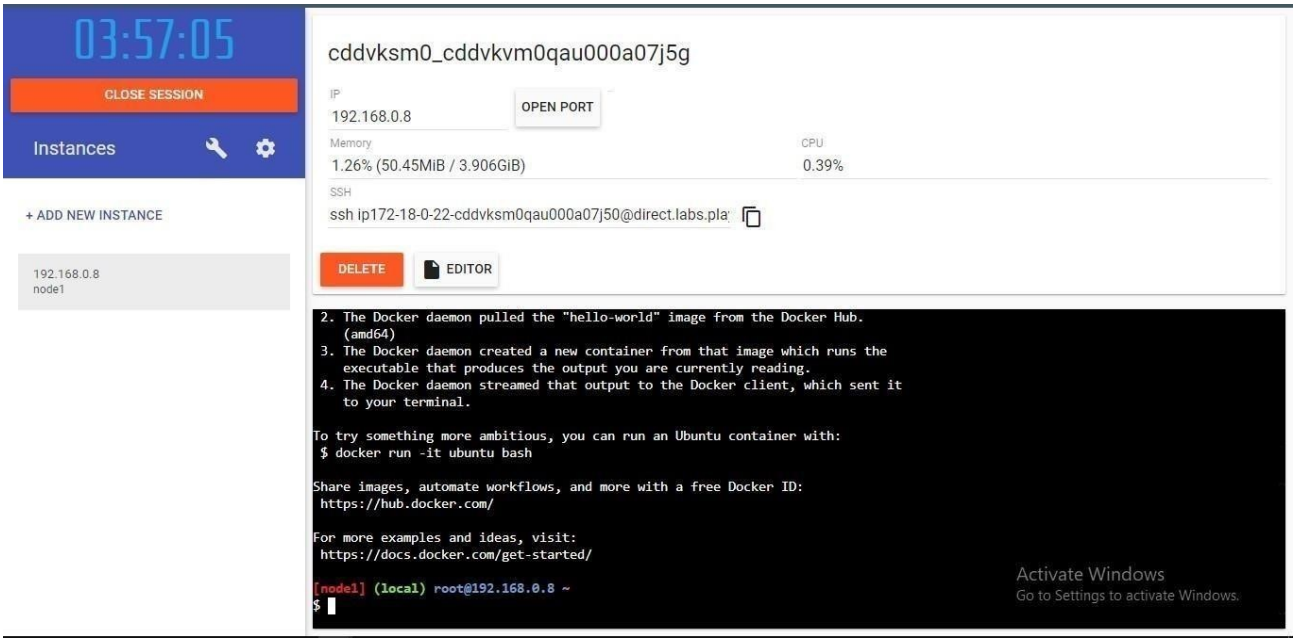
Assignment - 4

Assignment Date	27 October 2022
Student Name	Akash S
Student Roll Number	962219205004
Maximum Marks	2 Marks

Question 1:

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





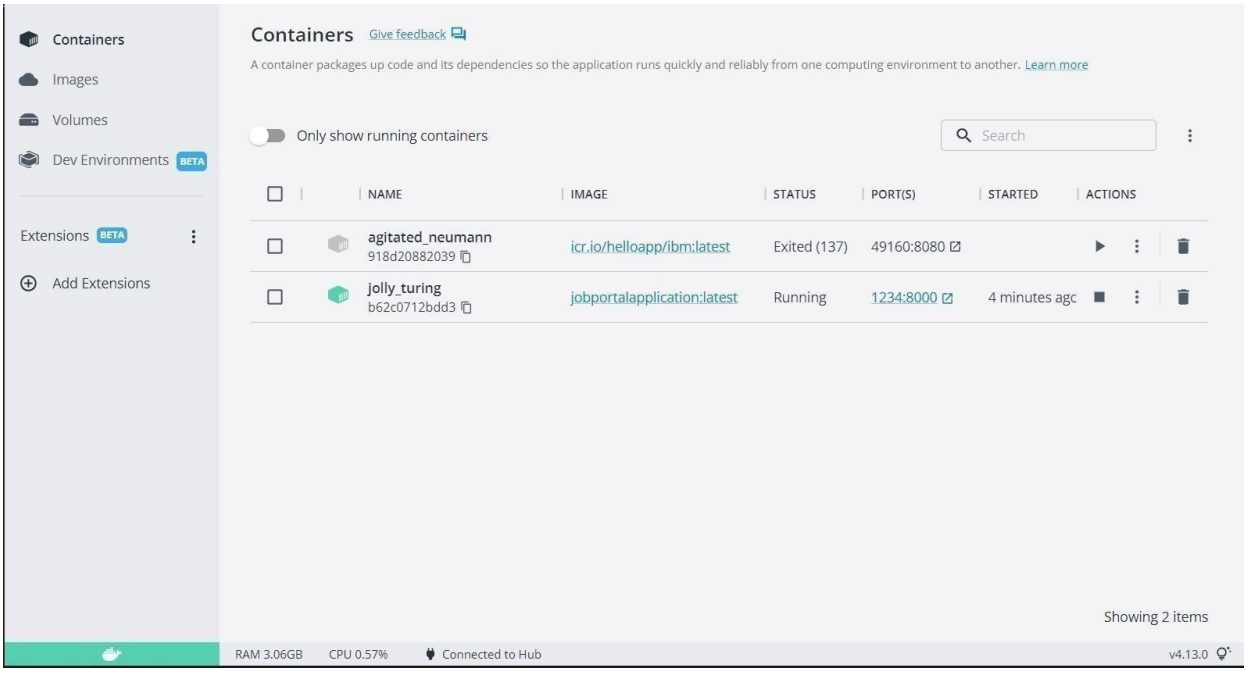
Question 2:

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

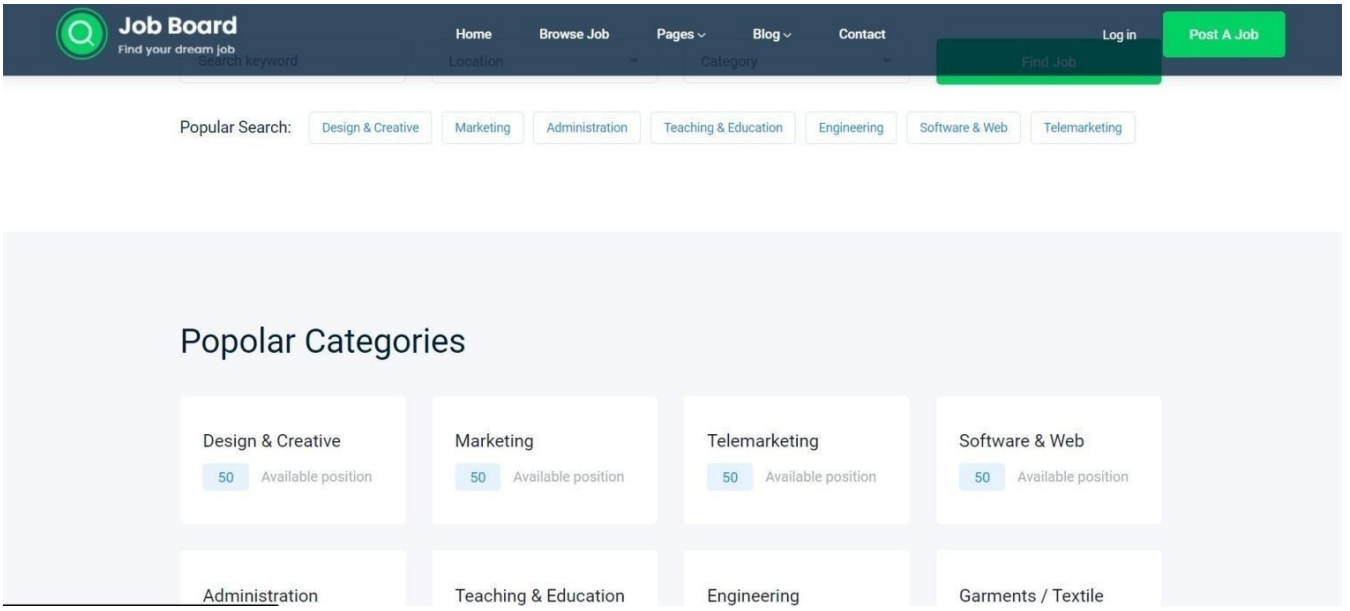
DOCKER FILE:

```
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:



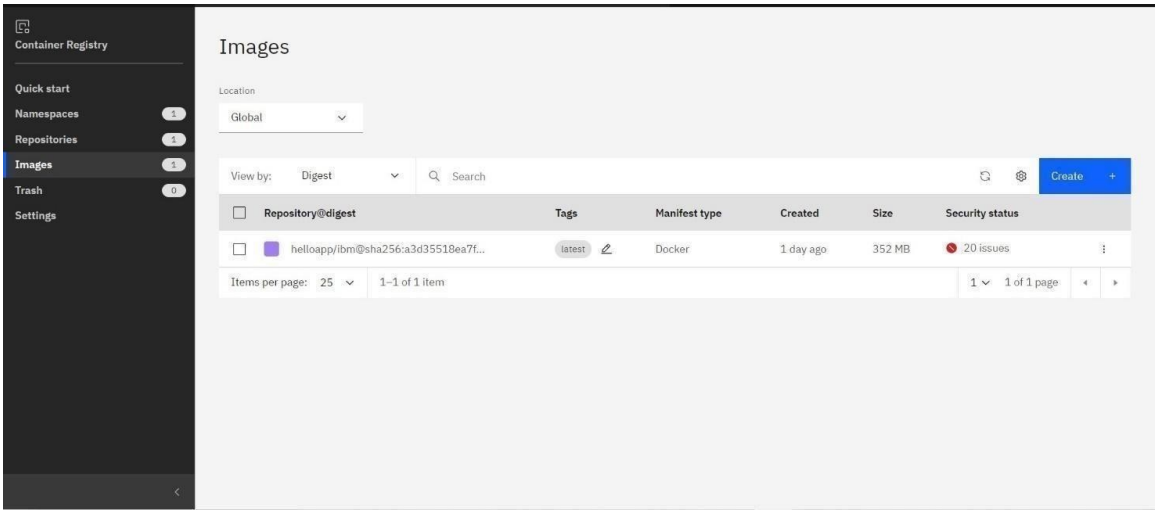
OUTPUT:



Question 3:

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

CONTAINER REGISTRY DEPLOYMENT:

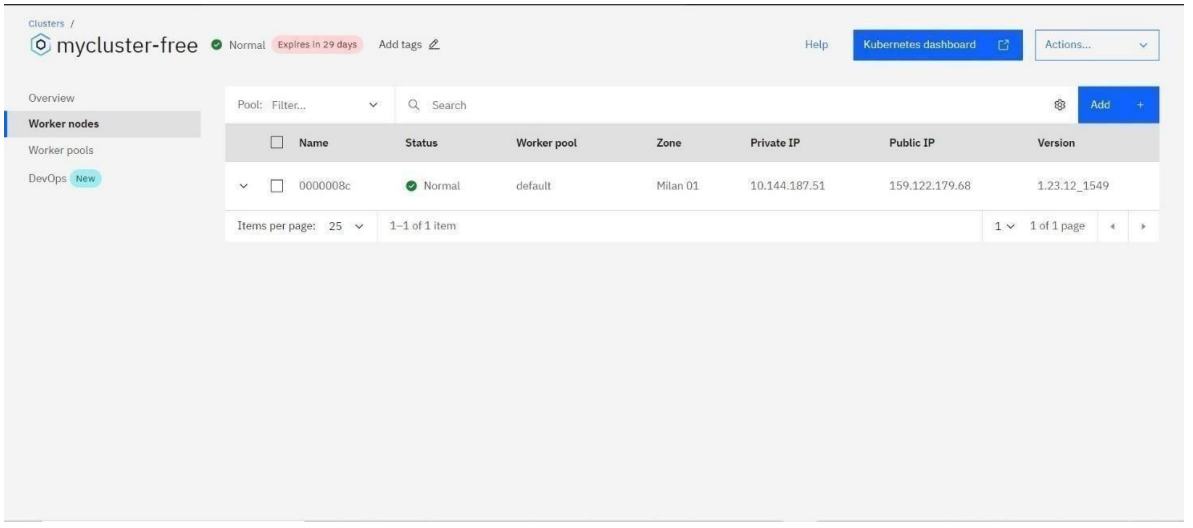


OUTPUT:

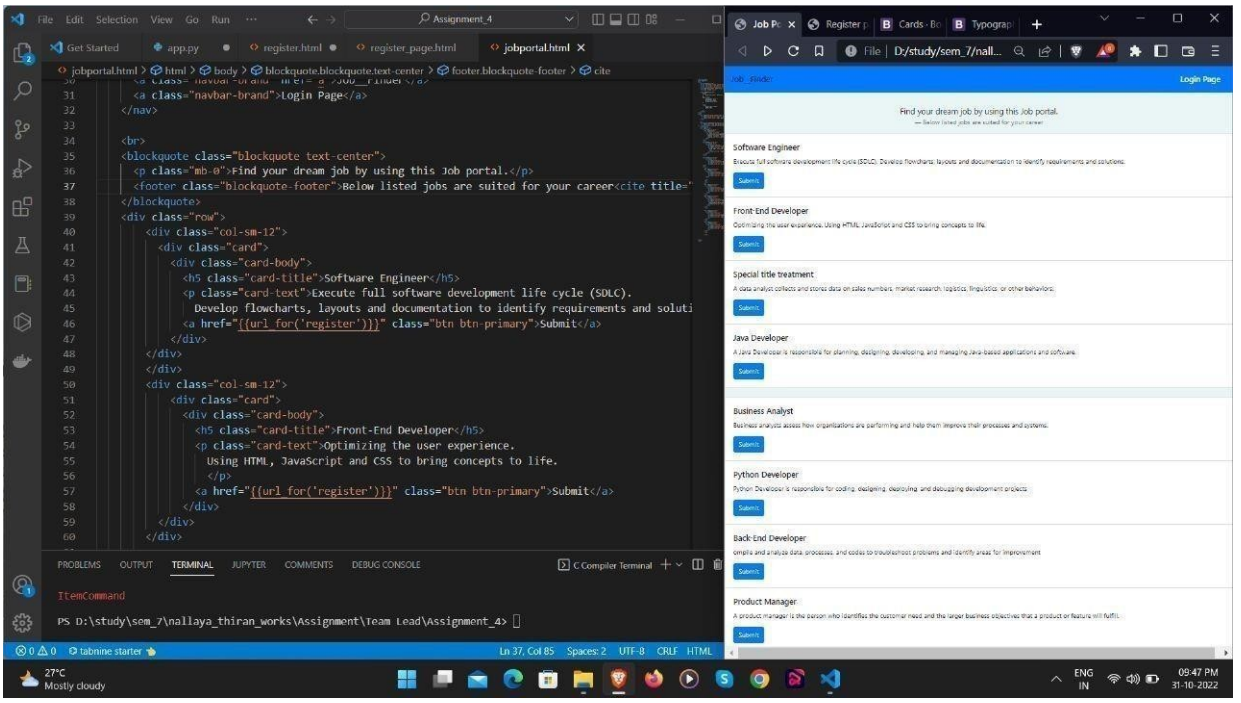
Question 4:

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 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>

<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>
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Ln 37, Col 85 Spaces: 2 UTF-8 CRLF HTML
Job Pc
Register p
Cards - Bo
Typograp
File | D:/study/sem_7/nall...
Job_finder
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 needs and the larger business objectives that a product or feature will fulfill.
Submit
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31-10-2022