Assignment - 4

Assignment Date	27 October 2022
Student Name	Maniyarasan . M
Student Reg Number	211419104160
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:

```
1   FROM python:3.8-buster
2
3   WORKDIR /app
4
5   COPY requirements.txt /app/
6
7   RUN pip install -r requirements.txt
8
9   COPY . /app/
10
11  RUN cp .env.dev.sample .env
12
13  EXPOSE 8000
14
15  RUN chmod +x entrypoint.sh
16
17  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 another. Learn more

Only show running containers

Search

		NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
☐		agitated_neumann 918d20882039	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		▶ ⋮ 🗑
☐		jolly_turing b62c0712bdd3	jobportalapplication:latest	Running	1234:8000	4 minutes ago	■ ⋮ 🗑

Showing 2 items

RAM 3.06GB   CPU 0.57%   Connected to Hub   v4.13.0
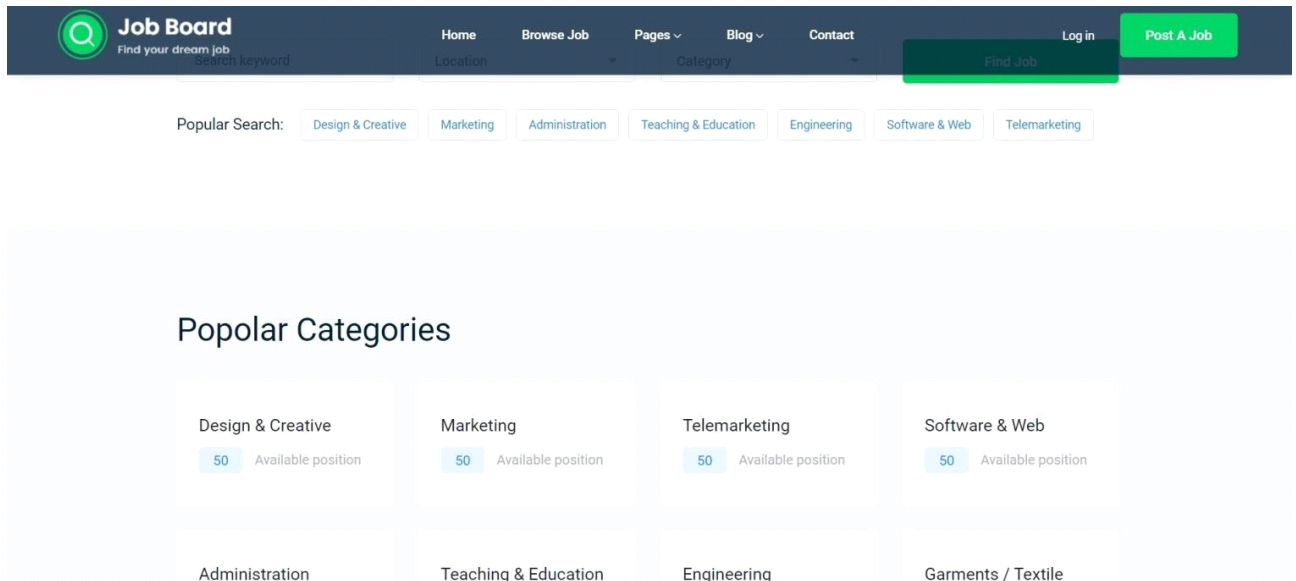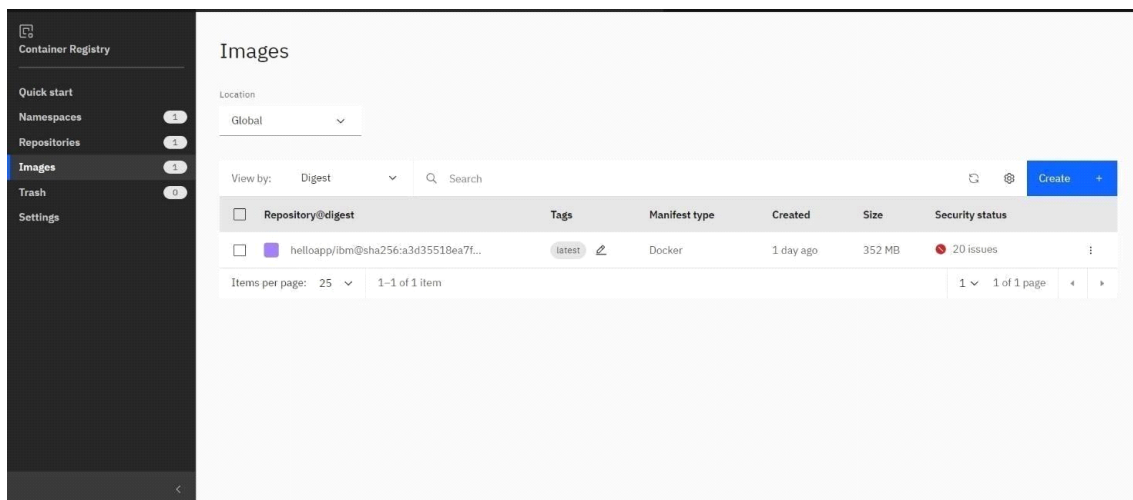
OUTPUT:
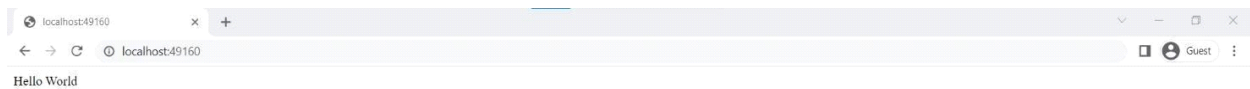
Question 3:

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

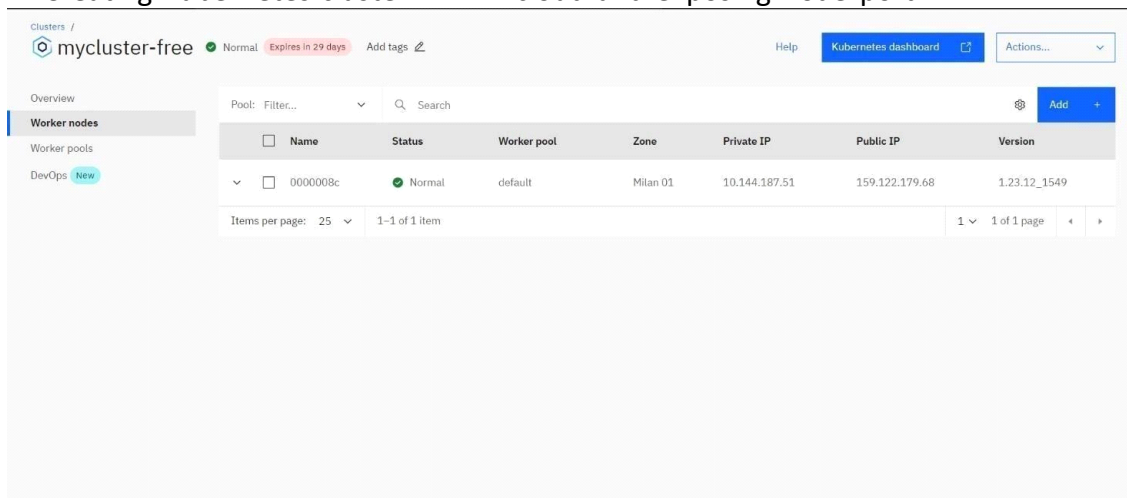port app.IBM CONTAINER REGISTRY DEPLOYMENT:

OUTPUT:

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 runin node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:

Output:

Get Started   ● app.py   ● register.html   ● register_page.html   ◇ jobportal.html ✕

jobportal.html > ⟨⟩ html > ⟨⟩ body > ⟨⟩ blockquote.blockquote.text-center > ⟨⟩ footer.blockquote-footer > ⟨⟩ cite

```
30        <a class="navbar-brand" href="#">Job__Finder</a>
31        <a class="navbar-brand">Login Page</a>
32      </nav>
33
34      <br>
35      <blockquote class="blockquote text-center">
36        <p class="mb-0">Find your dream job by using this Job portal.</p>
37        <footer class="blockquote-footer">Below listed jobs are suited for your career<cite title="
38      </blockquote>
39      <div class="row">
40          <div class="col-sm-12">
41            <div class="card">
42              <div class="card-body">
43                <h5 class="card-title">Software Engineer</h5>
44                <p class="card-text">Execute full software development life cycle (SDLC).
45                  Develop flowcharts, layouts and documentation to identify requirements and soluti
46                <a href="{{url_for('register')}}" class="btn btn-primary">Submit</a>
47              </div>
48            </div>
49          </div>
50          <div class="col-sm-12">
51            <div class="card">
52              <div class="card-body">
53                <h5 class="card-title">Front-End Developer</h5>
54                <p class="card-text">Optimizing the user experience.
55                  Using HTML, JavaScript and CSS to bring concepts to life.
56                </p>
57                <a href="{{url_for('register')}}" class="btn btn-primary">Submit</a>
58              </div>
59            </div>
60          </div>
```

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_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 organisations 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.
Submit