

#### Assignment -4

Assignment Date	10 October 2022
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Student Roll Number	814619104303
Maximum Marks	2 Marks

#### Question 1:

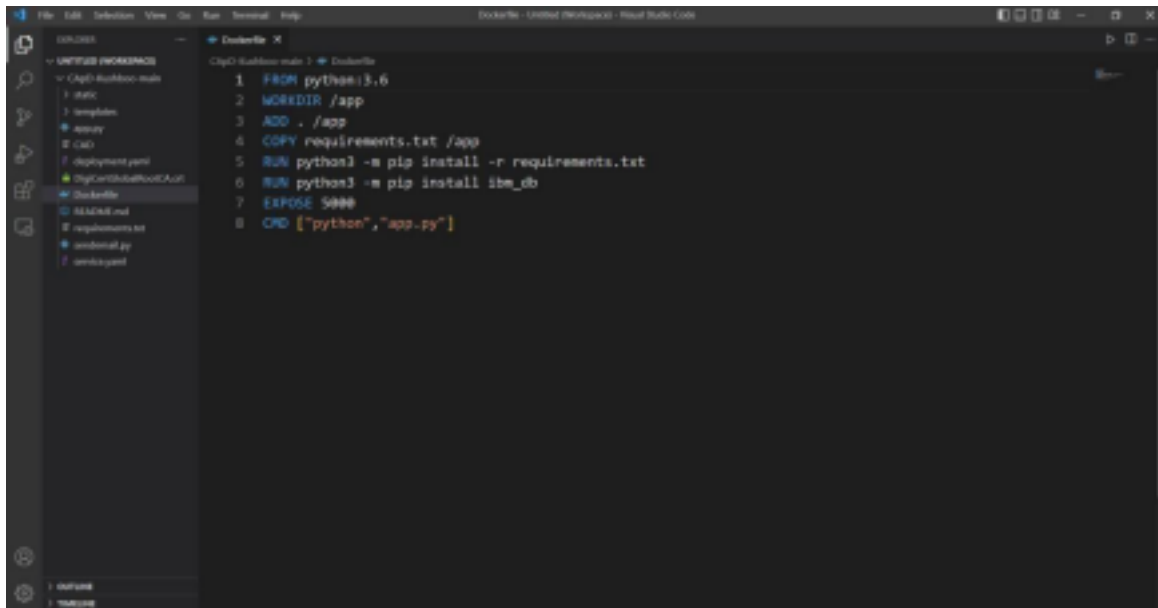
1. Pull an Image from docker hub and run it in docker playground

The screenshot displays the Docker Playground web interface. On the left, there's a sidebar with a timer showing 03:57:55, a 'CLOSE SESSION' button, and an 'Instances' section. The main area shows details for a container named 'cdp7fp79\_cdp7fsu0qau000bpngug'. The IP address is 192.168.0.28, and the port 9000 is open. The container's memory usage is 1.62% (64.73MB / 3.906GB) and CPU usage is 0.94%. Below this, there's a terminal window showing the following commands and output:

```
# The SWD team.
[rook1] (local) root@192.168.0.28 -
$ docker pull uifd/ui-for-docker
Pulling from uifd/ui-for-docker
latest: Pulling from uifd/ui-for-docker
841194d099c8: Pull complete
Digest: sha256:fe371ff3a5349269b24073a5ab1244d0c0b034bade244870572193b1ch749
Status: Downloaded newer image for uifd/ui-for-docker:latest
rook1:~$ docker run -d -p 9000:9000 --privileged --w /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
f7edfecb1dca466d0f220e0eae438f84be6e0da29a382a2160ee153e6b553ea
[rook1] (local) root@192.168.0.28 -
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
uifd/ui-for-docker  latest            962940f93fa5        6 years ago        8.1MB
[rook1] (local) root@192.168.0.28 -
```

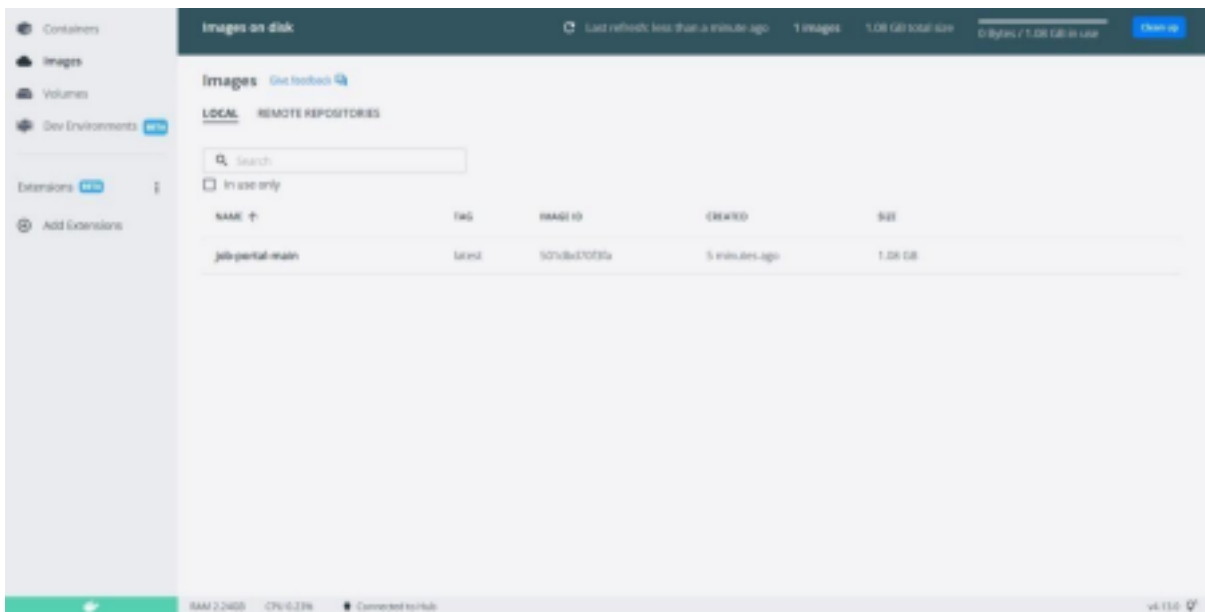
#### Question 2:

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



The screenshot shows the Visual Studio Code editor with a Dockerfile open. The file explorer on the left shows a project structure with a 'Dockerfile' file. The Dockerfile content is as follows:

```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install lib_db
7 EXPOSE 5000
8 CMD ["python", "app.py"]
```



### Question 3:

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





Containers Registry

Quick start

Namespaces

Repositories

Images

Trails

Settings

## Images

Location: Sydney

View by: Digest Search Create

Repository/digest	Tags	Manifest type	Created	Size	Security status
<input type="checkbox"/> job-post-to-app/test@sha256:ca66688a6a72...	<a href="#">Digest</a>	Docker	1 day ago	435 MB	99 issues

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**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.

