

Assignment -4

Student Name	Saran VT
Student Roll Number	737819ECR165
Maximum Marks	2 Marks

Question-1:

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

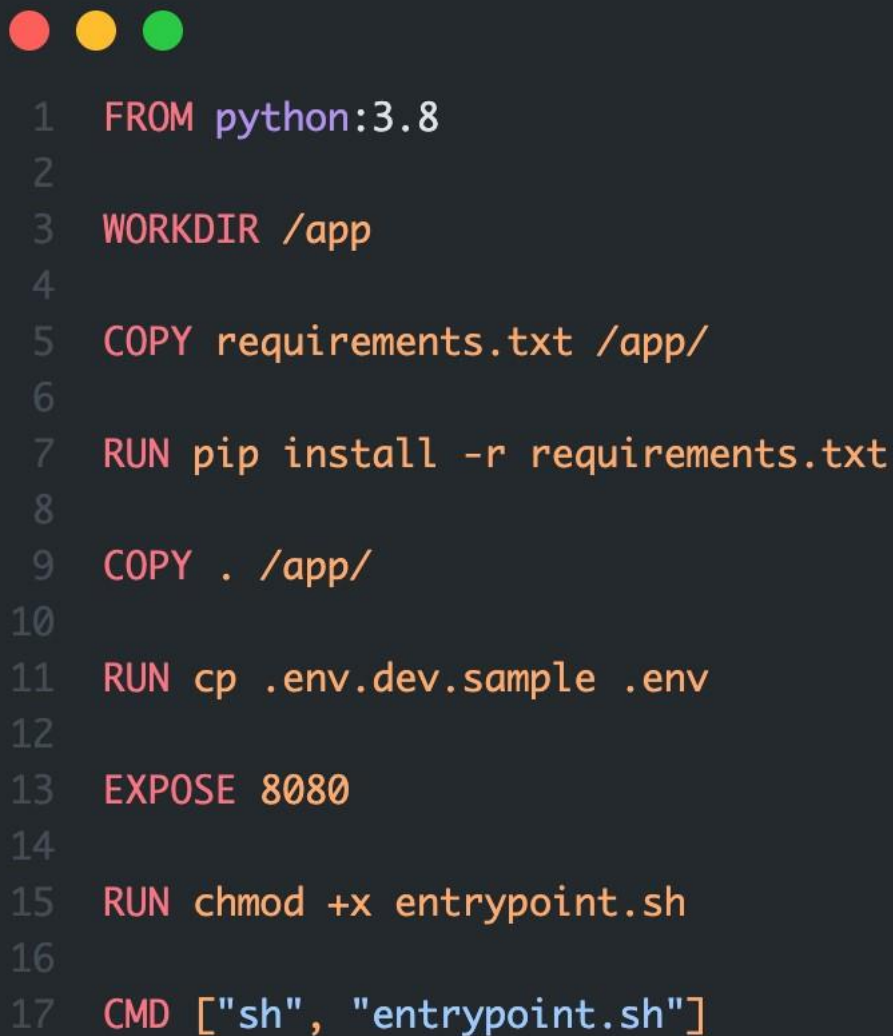
The screenshot displays the Docker Playground interface. The top section shows a terminal window with the following output:

```
WARNING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The FWD team.
#####
[node1] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
041194d000e8: Pull complete
Digest: sha256:fe3711f5a69549269b24073a5ab1244dd4c0b834ebadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
e202191ab07da09267c3043c30471017e7e075187b53de6b8cd3bcf2cfa3c933
[node1] (local) root@192.168.0.13 ~
$
```

The bottom section shows the 'UI For Docker' dashboard. It includes a navigation bar with tabs: Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info. A 'Refresh' button is also present. The 'Running Containers' section shows a list of containers, including 'frosty_jang' which is 'Up 9 seconds'. The 'Status' section features a donut chart showing the status of containers: Running (green), Stopped (red), and Ghost (grey). The 'Containers created' and 'Images created' sections show line graphs with data points for 11/16/2022 and 9/8/2016 respectively.

Question-2:

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



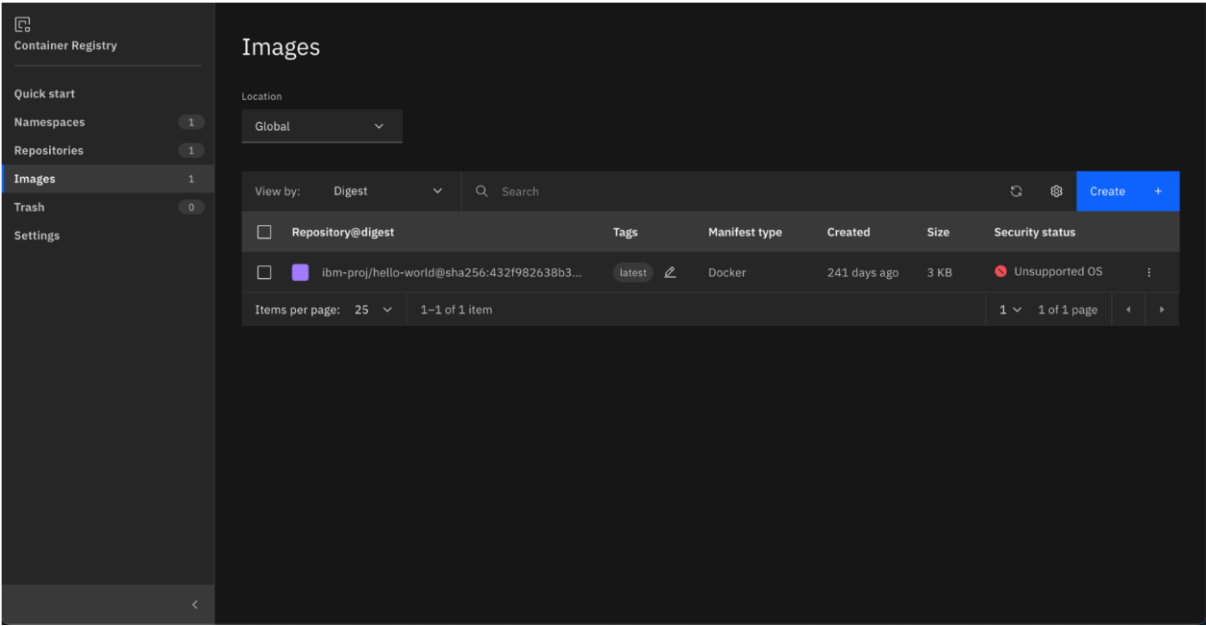
```
1 FROM python:3.8
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8080
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

```
> docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
jenkins/jenkins	alpine	945a0cfe1c07	2 months ago	262MB
ubuntu	latest	21735dab04ba	2 months ago	69.2MB
hello-world	latest	46331d942d63	8 months ago	9.14kB
icr.io/ibm-proj/hello-world	latest	46331d942d63	8 months ago	9.14kB
jobportal	latest	281099761321	8 months ago	9.14kB
gcr.io/k8s-minikube/kicbase	v0.0.26	f155e4723c40	14 months ago	976MB

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

Question-3:



Question-4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

