

Question-1

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

```
C:\Users\Mukundhan>docker pull Mukundhan113/hello1
Using default tag: latest
Latest: Pulling fromMukundhan113/hello1
Ca7dd9ec2225: Already exists
e124a36b9ab: Already exists
3667 c4d827e9: Already exists
322b5bc612d6: Already exists
12d3bd591cf0: Already exists
533e3d869ffb: Already exists
2708e70b3f48: Already exists
24e0673648dc: Already exists
175ccbcbcaf0: Already exists
Digest: sha256:b3ba503ab8f6a8e22312e0425486fec74309b8505338604d9bdeb3ed28e8023
Status: Downloaded newer image forMukundhan113/hello1:latest
docker.io/Mukundhan113/hello1:latest

C:\Users\Mukundhan>
```

```
C:\Users\Mukundhan> docker run -p 5000:5000 -d Mukundhan113/hello1
ab0e48953acec7489e48590606df4aeb3b59c6b9c66fba64e5e537641dc59350
C:\Users\Mukundhan>
```

Question-2

Create a docker file for the jobportal application and deploy it in Docker desktop application.

```
# init a base image (Alpine is small Linux distro)
FROM python:3.10.8-alpine
# update pip to minimize dependency errors
RUN pip install --upgrade pip
# define the present working directory
WORKDIR /hello1
# copy the contents into the working dir
ADD . /hello1
# run pip to install the dependencies of the flask app
RUN pip install -r requirements.txt
# define the command to start the container
CMD ["python", "app.py"]
```

(venv) PS C:\Users\mukundhan\PycharmProjects\hello1> docker image build -t hello1 .

Question -3

Create a IBM container registry and deploy helloworld app or jobportalapp

```
C: \Users \Mukundhan>docker tag Mukundhan113/hel101 jp.icr.io/Mukundhan113/hello-world:hello
C: \Users \Mukundhan>docker push jp.icr.io/Mukundhan113/hello-world:hello
The push refers to repository [jp.icr.io/Mukundhan113/hello-world]
6391736c4f05: Pushed
1939675abf8e: Pushed
f518a2f3977a: Pushed
f7834adff5cd: Pushed
509bd8266714: Pushed
333f96496727: Pushed
2edf98458dc1: Pushed
f80ab90a8afe: Pushed
e5e13b0c77cb: Pushed
hello: digest: sha256:b3ba503ab8f6a8e22312e0425f486fec74309b8505338604d9bdeb3ed28e8023 size: 2208

C: \Users \Mukundhan>
```