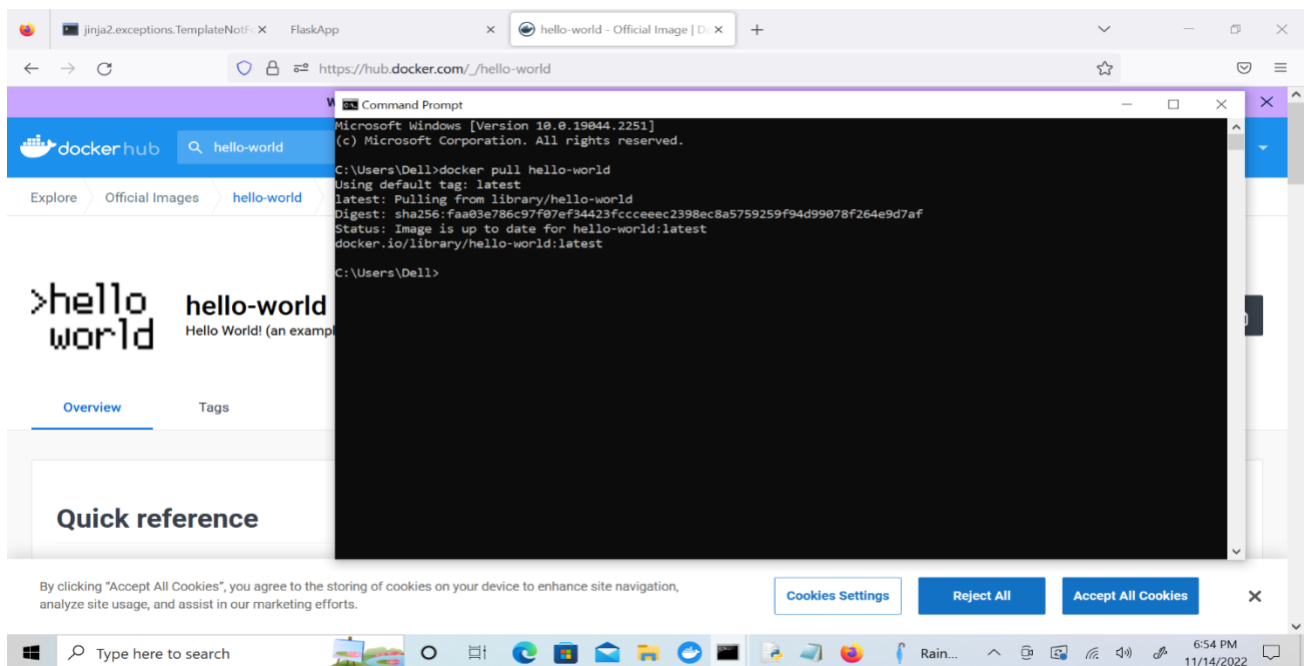
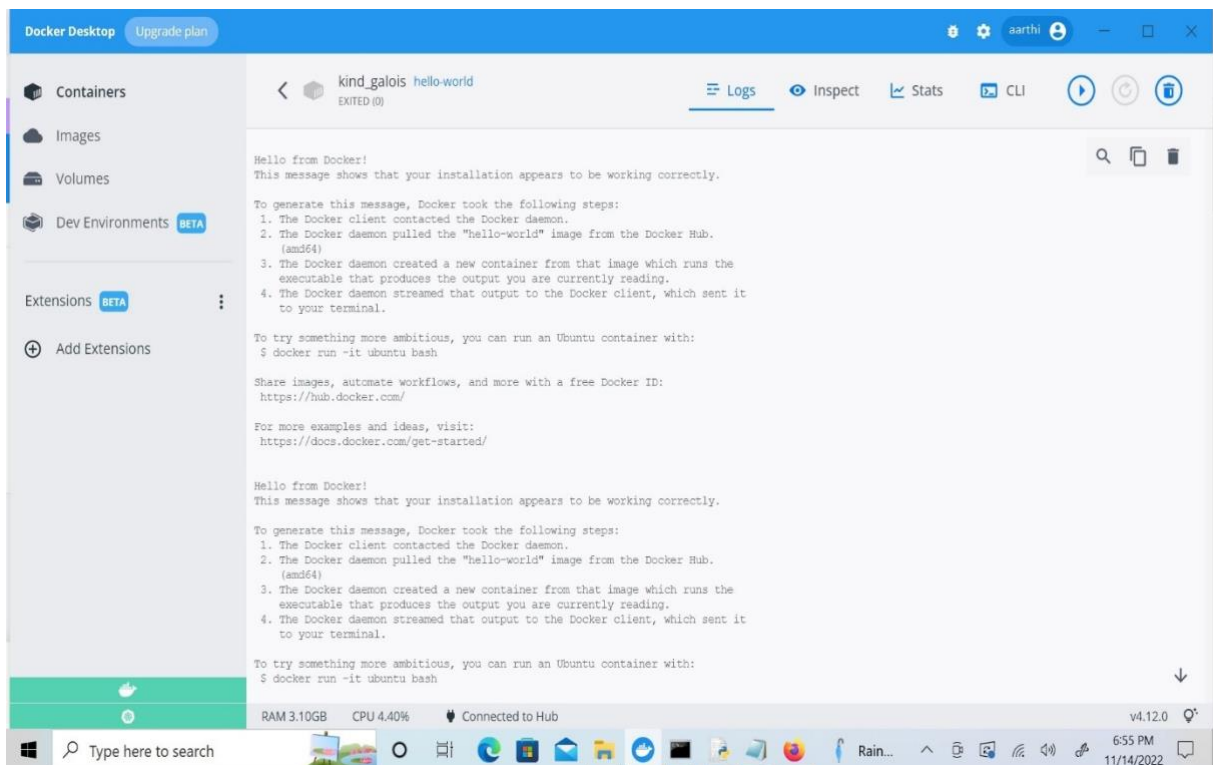
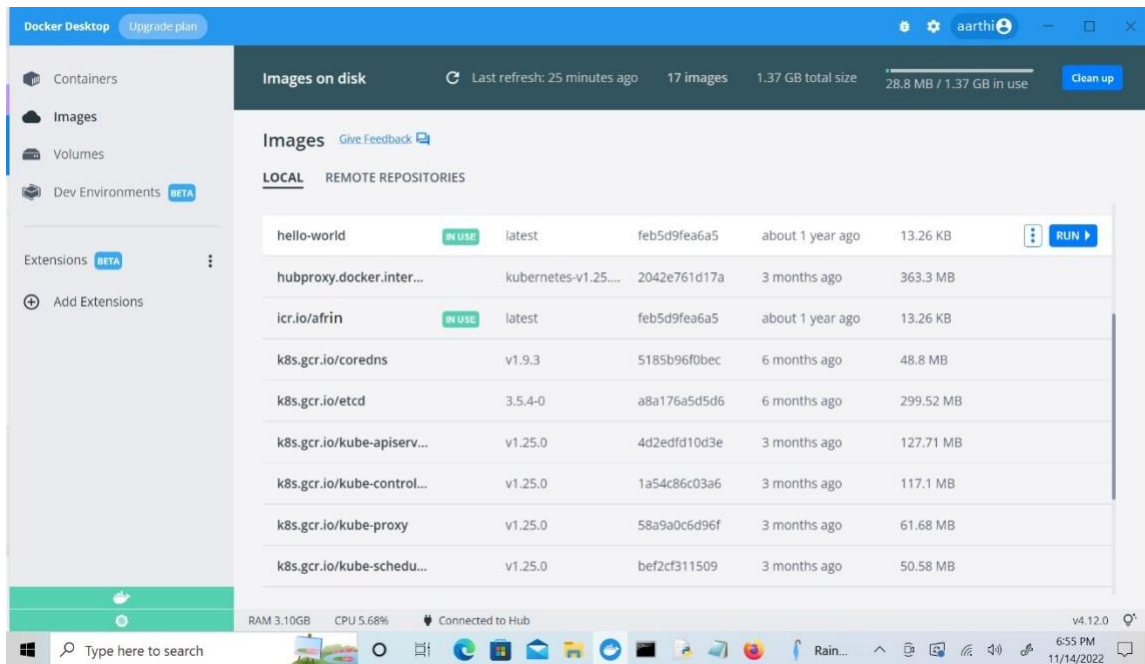


Assignment -4

Assignment Date	14 November 2022
Student Name	AARTHI.S
Team ID	PNT2022TMID48189
Maximum Marks	2 Marks

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





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

Dockerfile:

FROM

python:3.6

WORKDIR /app

ADD ./app

COPY requirements.txt /app

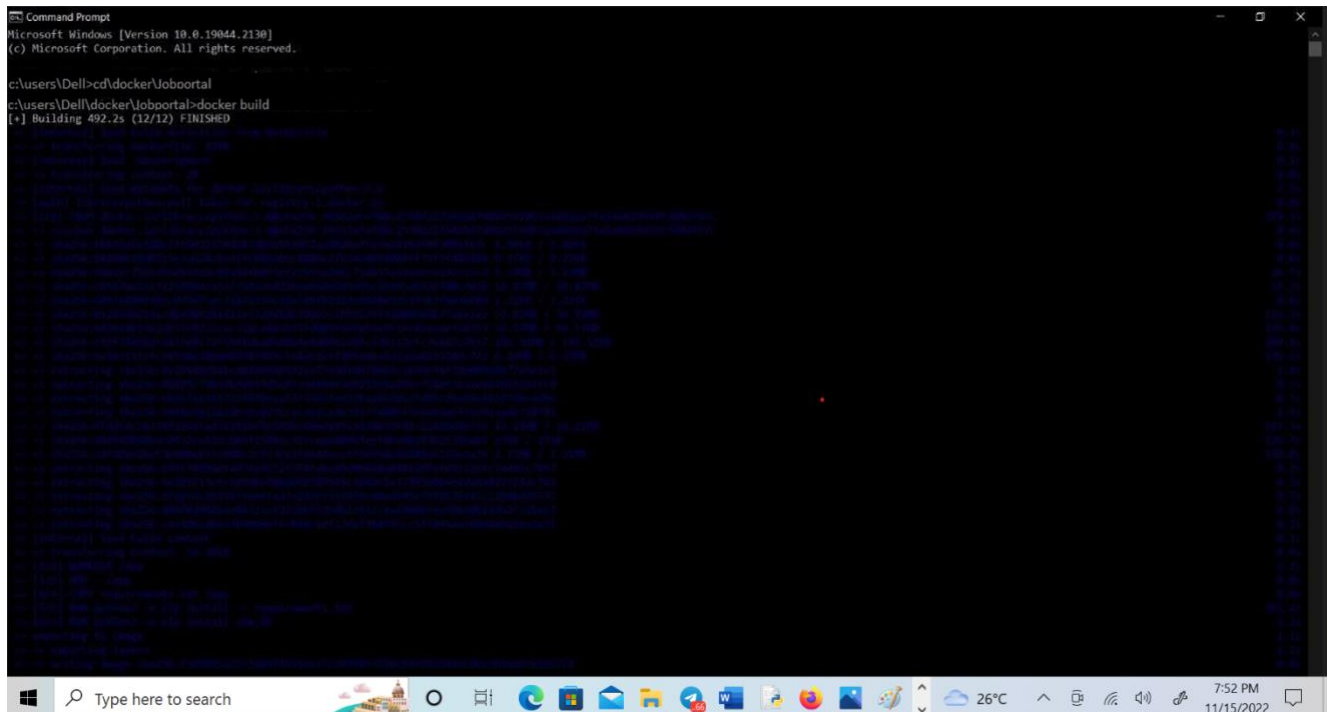
RUN python3 -m pip install -r

requirements.txtRUN python3 -m pip

install ibm_db

EXPOSE 5000

CMD ["python","app.py"]



The screenshot shows a Windows Command Prompt window with the following text:

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>cd\docker\jobportal
C:\Users\Dell\docker\jobportal>docker build
[*] Building 492.2s (12/12) FINISHED
```

The output shows the Docker build process, including the creation of the Dockerfile, the addition of the app directory, the copying of requirements.txt, the installation of dependencies, and the final build completion. The taskbar at the bottom shows the system clock as 7:52 PM on 11/15/2022.

```
Command Prompt - docker run f3d9015a21f3

c:\users\Dell\docker\Jobportal>docker images
REPOSITORY                                TAG                                IMAGE ID            CREATED            SIZE
k8s.gcr.io/kube-apiserver                v1.25.0                          2042e761d17a       2 months ago      363MB
k8s.gcr.io/kube-scheduler                v1.25.0                          4f2edfd10d3e       2 months ago      128MB
k8s.gcr.io/kube-controller-manager       v1.25.0                          be72cf311109       2 months ago      59.6MB
k8s.gcr.io/kube-proxy                    v1.25.0                          1a54c86c03a6       2 months ago      117MB
k8s.gcr.io/pause                          3.8                              58a9a8cd996f       2 months ago      61.7MB
k8s.gcr.io/etcd                           3.5.4-0                          4873874c08ef       4 months ago      711kB
k8s.gcr.io/coredns                       v1.9.3                            a8a176a5d5d6       5 months ago      300MB
docker/desktop-vpnkit-controller         v2.0                              5185b96f0bec       5 months ago      48.8MB
docker/desktop-storage-provisioner       v2.0                              8c2c38aa676e       18 months ago     21MB
                                           99f89471f478       18 months ago     41.9MB

c:\users\Dell\docker\Jobportal>docker run f3d9015a21f3
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
```

JOHPORTAL | HOME

Not secure | 172.20.10.6:5000/login

Codeforces Facebook - पण फैल... YouTube RARBG Karbg Index... Twitch Track the TV shows... Gmail Instagram TorrentBD: Welcome Yahoo SkymoviesHD.in [JS... Circle Network]

sheep-logo

LOGOUT REGISTER MY JOBS

Available Jobs

Python

Skills for python

Apply Now

Docker Desktop Upgrade plan

aarathi

jovial_proskuriakova f3d9015a21f3 EXITED (137)

Logs Inspect Stats CLI

```
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
```

EXT

RAM 4.89GB CPU 2.44% Connected to Hub v4.12.0

3. Create a IBM container registry and deploy hello world app.

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email> aarthisankaar@gmail.com

Password>
Authenticating...
OK

Targeted account aarthis Account (88c274669d884663b189ea0b9caa1234)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: aarthisankaar@gmail.com
Account: aarthis Account(88c274669d884663b189ea0b9caa1234)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\Dell>
```

IBM Cloud Container Registry

https://cloud.ibm.com/registry/repos

IBM Cloud

Search resources and products...

Catalog

Manage

aarthi's Account

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

Repositories

Location

London

Search

Create

Name	Image count	Namespace	Last updated
<div>hello-world</div> <div>uk.icr.io/app1_flask/hello-world</div>	1	app1_flask	416 days ago

Items per page: 251-1 of 1 item

Type here to search

25°C

8:29 PM

11/13/2022

4. Create a Kubernetes cluster in IBM cloud and deploy job portal image and also expose the same app to run in nodeport.

