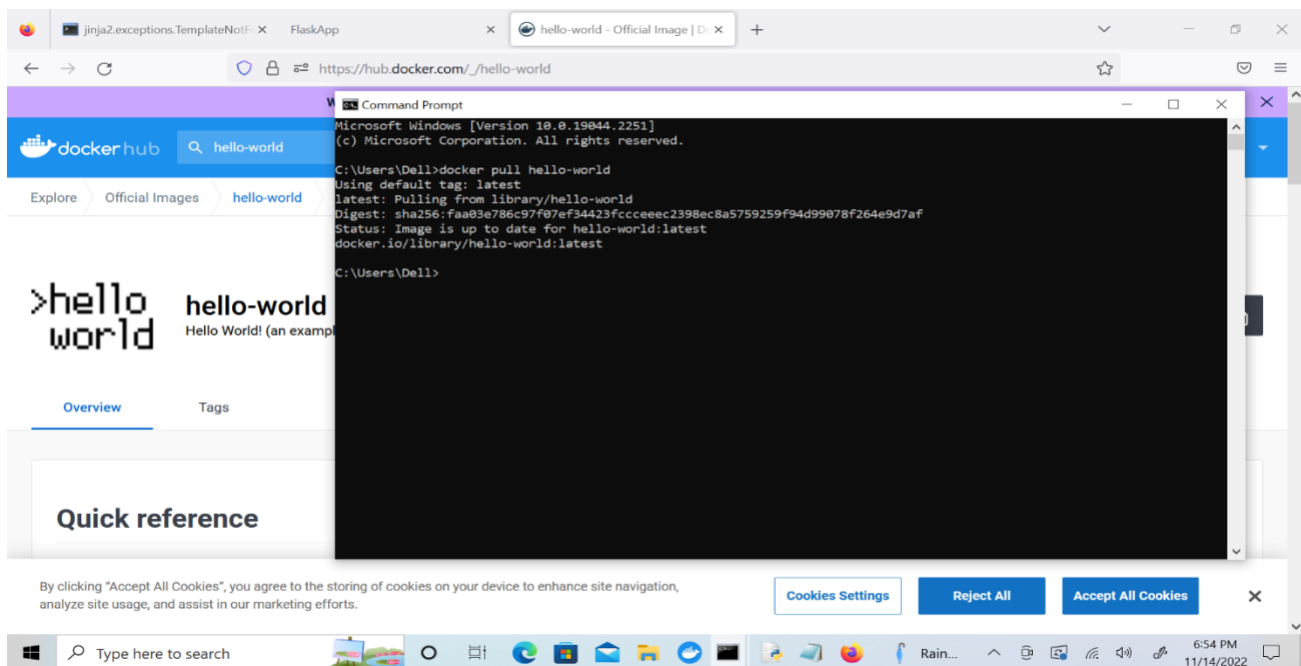
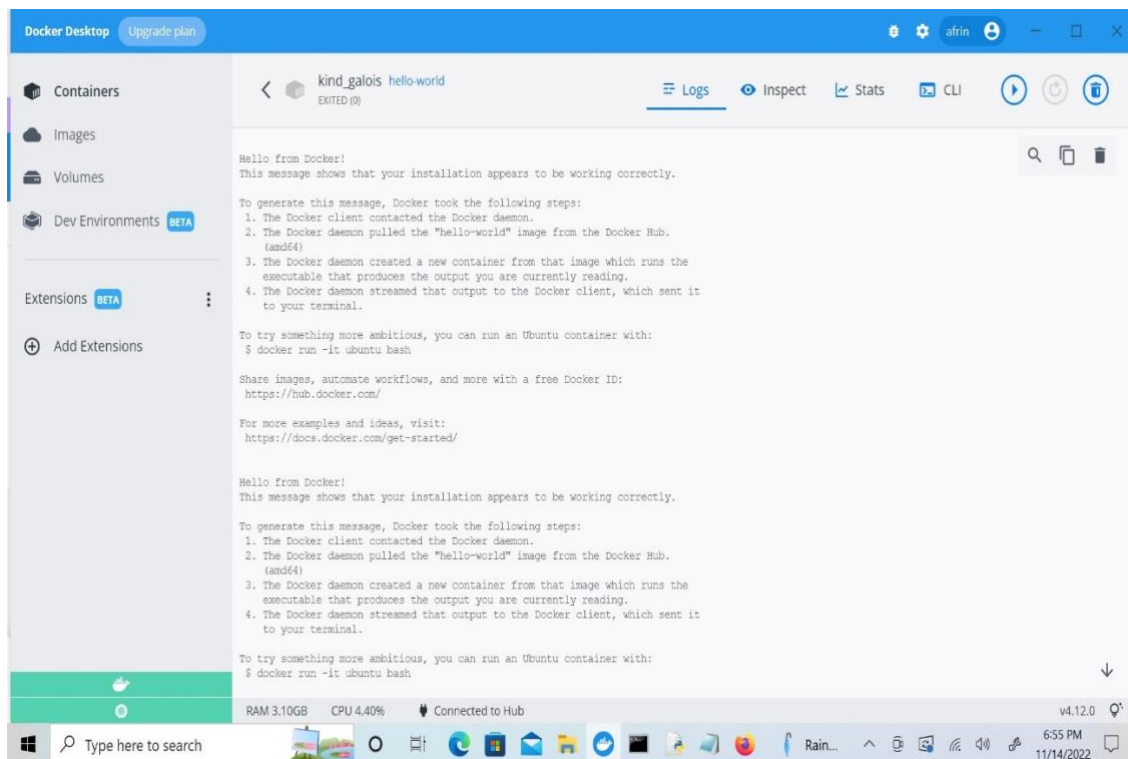
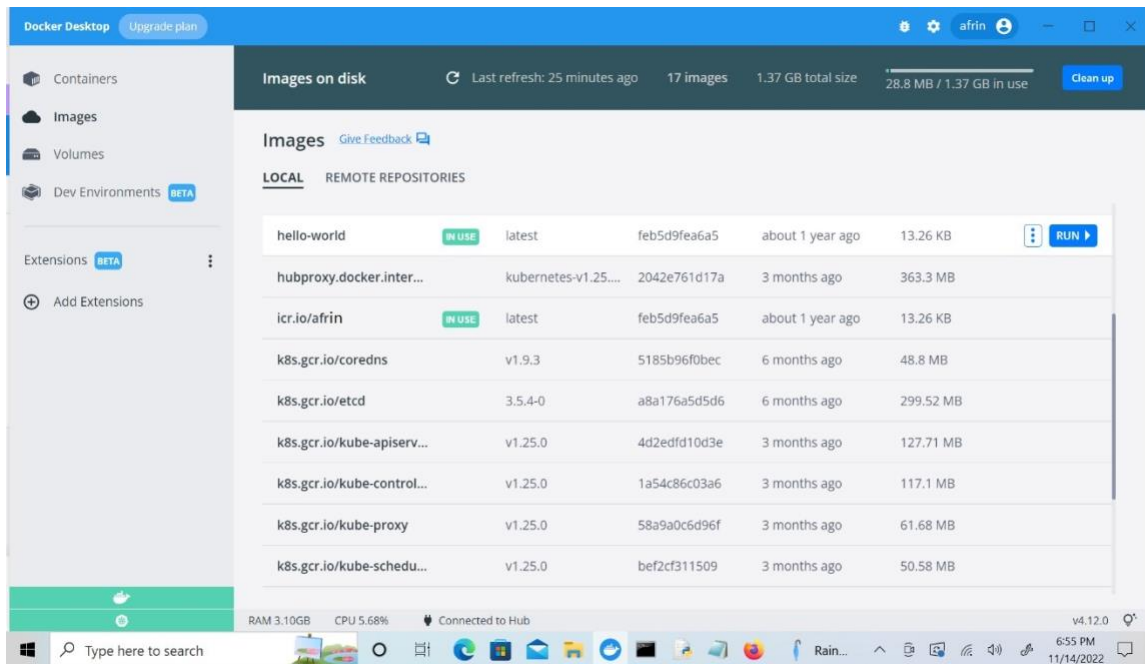


## Assignment -4

Assignment Date	14 November 2022
Student Name	AFRIN FATHIMA.A
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

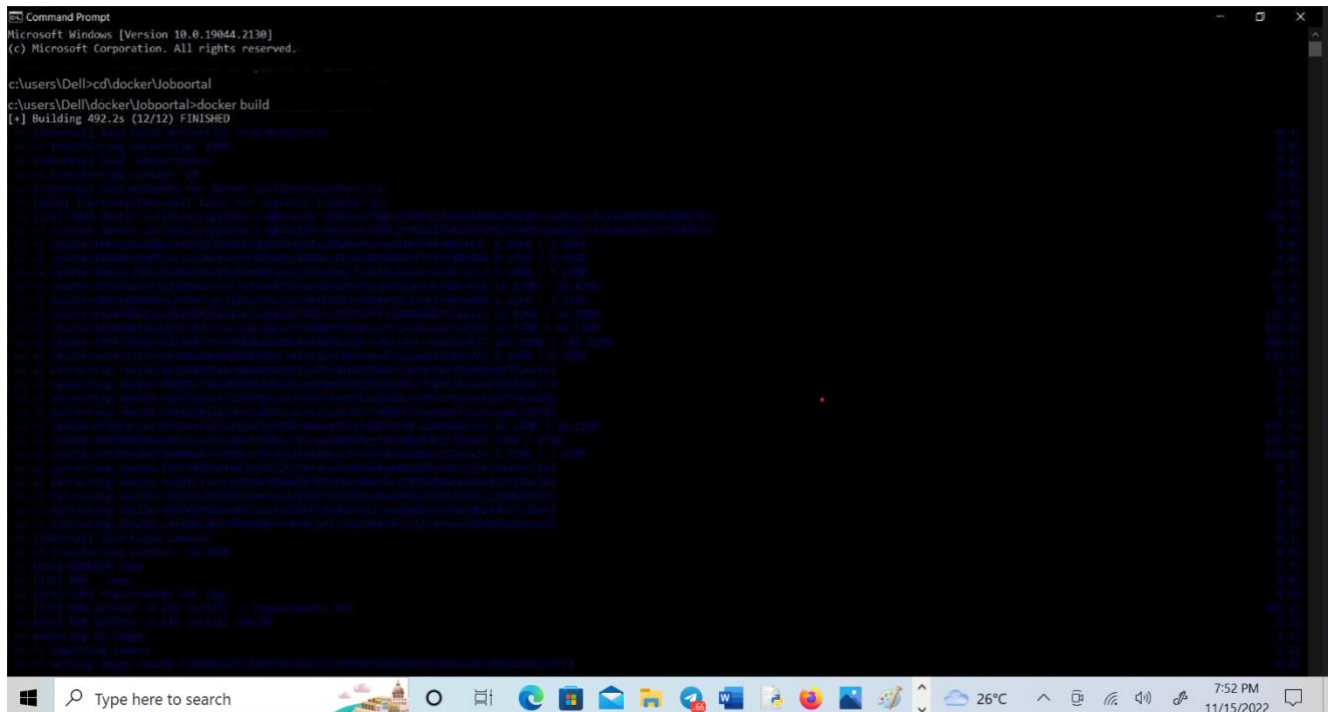
RUN python3 -m pip install -r

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 of the `docker build` command is displayed in a multi-line format, showing the progress of the build process. The build is completed successfully, and the image is ready for deployment.

```
Command Prompt - docker run f3d9015a21f3

c:\users\Dell\docker\Jobportal>docker images
REPOSITORY                                TAG                                IMAGE ID        CREATED        SIZE
kubernetes.docker.internal:5000/docker/desktop-kubernetes  <none>                            f3d9015a21f3   2 minutes ago 1.08GB
k8s.gcr.io/kube-apiserver                    v1.25.0                          2042e761d17a   2 months ago 363MB
k8s.gcr.io/kube-scheduler                    v1.25.0                          4d2edfd10d3e   2 months ago 128MB
k8s.gcr.io/kube-controller-manager            v1.25.0                          bf72cf311509   2 months ago 59.6MB
k8s.gcr.io/kube-proxy                         v1.25.0                          1a54c86c03a6   2 months ago 117MB
k8s.gcr.io/pause                             v3.8                             58a9a8cd96f    2 months ago 61.7MB
k8s.gcr.io/etcd                              v3.5.4-0                         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)
```

JOYPORAL | HOME

Not secure | 172.20.10.6:5000/login

Codeforces Facebook - नमो देख... YouTube RARBG Rarbg Index... Twitch Track the TV shows... Gmail Instagram TorrentBD: Welcome Yahoo SkymoviesHD.in [S... Circle Network]

sheep-logo

LOGOUT REGISTER MY JOBS

### Available Jobs

Python

Skills for python

Apply Now

Docker Desktop Upgrade plan

afirin

jobial\_proskuriakova f3d9015a21f3

Log 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>afifathu@gmail.com

Password>
Authenticating...
OK

Targeted account Afra Fathima's Account (88c274669d884663b189ea0b9caa1234)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: afifathu@gmail.com
Account: Afrin Fathima's 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

Afrin

Fathima's Account

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

Repositories

Location

London

Search

Create

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

Items per page: 251-1 of 1 item

11 of 1 page

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.

