

ASSIGNMENT – 4

Assignment Date	28 October 2022
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Maximum Marks	2 Mark

Question-1

Pull an image from Dockers hub and run it in Dockers playground.

SOLUTION:**STEP: 1**

Login to Dockers hub and get an image

STEP: 2

- **Open Dockers playground**
- **Login with Dockers**
- **Create new instance**

STEP: 3

In the command prompt run the following:

\$ docker pull hello-world

\$ docker run hello-world

```

root@192.168.0.8 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:14ef57d0cc1c7d0478e3fbee8b7ab4918ba25964d3e1b0adebfe71ead8c384
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
root@192.168.0.8 ~
$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

root@192.168.0.8 ~
$

```

QUESTION 2:

Create a Dockers file and deploy it in Dockers desktop application SOLUTION:

STEP: 1

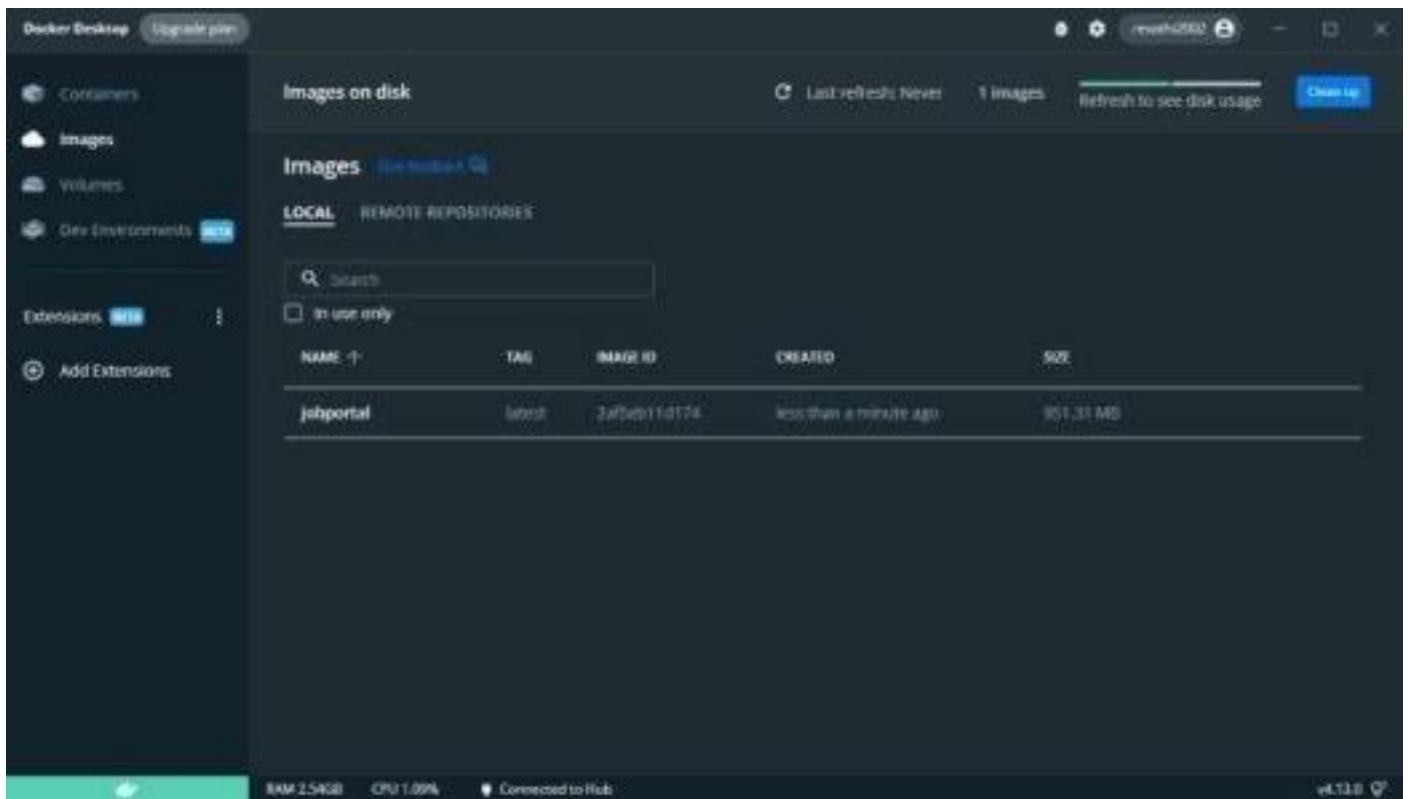
- Create a flask application
- Create a Dockerfile in the same folder

STEP: 2

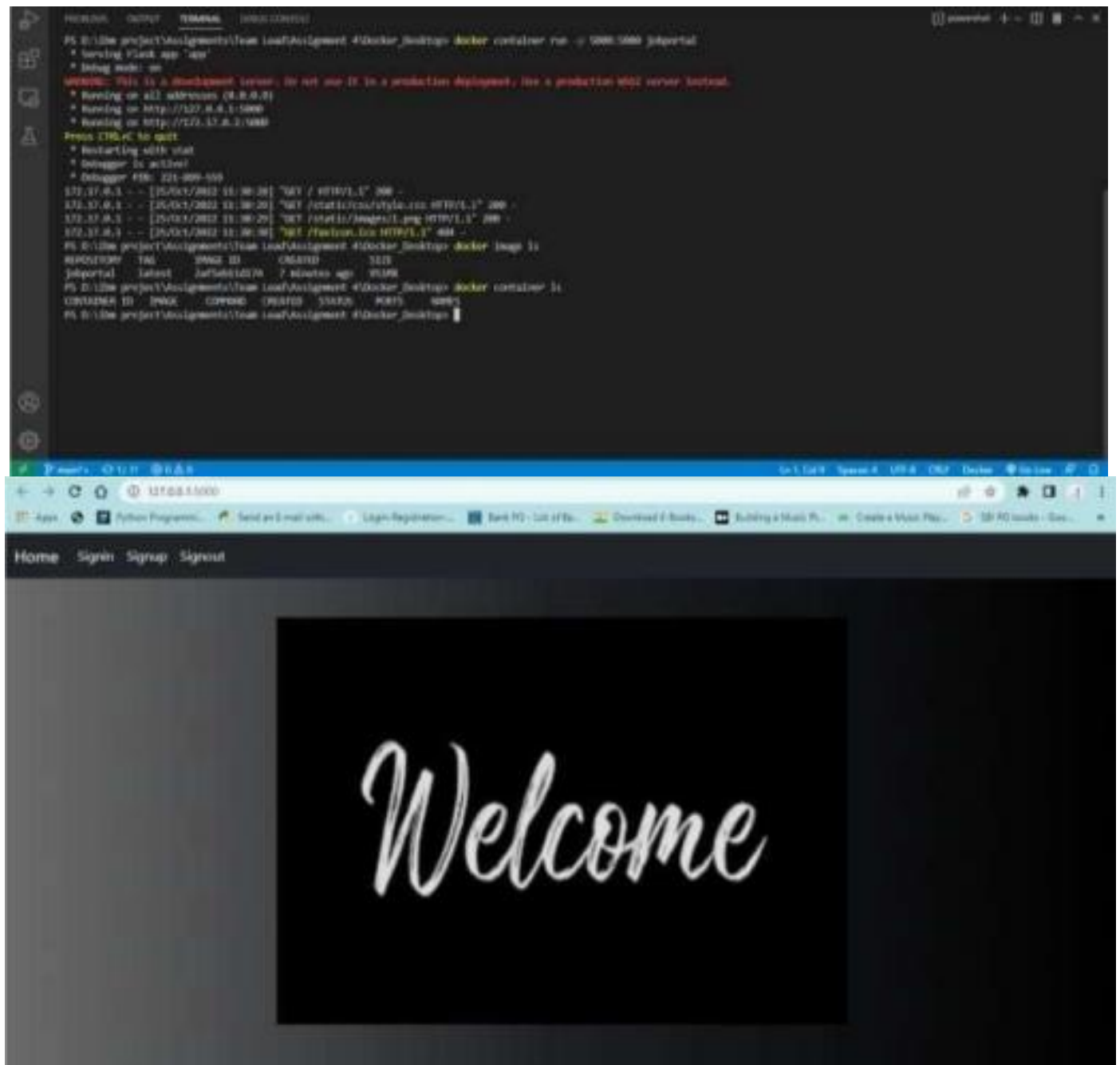
Run the following commands to deploy it in docker desktop

```
$ docker build -t jobportal
```

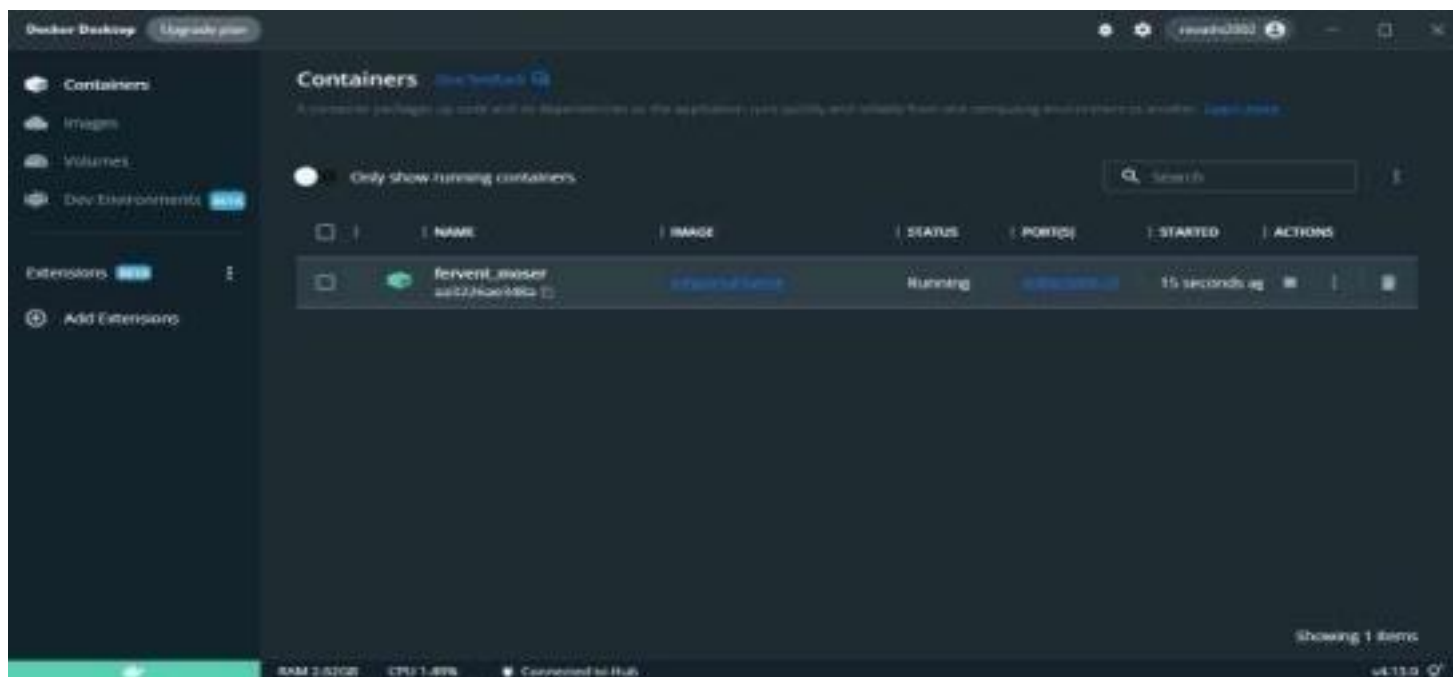
```
$ docker image ls
```



\$ docker container run -p 5000:5000 jobportal



\$ docker container ls



QUESTION 3:

Create an IBM container registry and deploy hello-world-app or job-portal-app SOLUTION: QUESTION 4:

```
PS D:\Ibm\project\Assignments\Ibm\IbmAssignment #128\container_registry> docker plugin install container-registry -- --ibm-cloud
Looking up 'container-registry' from repository 'IBM Cloud'...
Plugin 'container-registry:v1.6.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
11.96 MiB / 11.96 MiB [-----] 100.00% 1.6Mi/s
12476MiB bytes downloaded
Installing binary...
OK
Plugin 'container-registry:v1.6.2' was successfully installed into C:\Users\IBMAdmin\AppData\Local\bin\container-registry, the 'C:\Program Files\IBM\cloud\bin\docker-registry'
we plugin 'show container-registry' to show its details.
PS D:\Ibm\project\Assignments\Ibm\IbmAssignment #128\container_registry> docker --registry=us.gcr.io
Error:
You are not logged in to IBM Cloud.
Log in by running the 'C:\Program Files\IBM\cloud\bin\docker-registry login' command.

PS D:\Ibm\project\Assignments\Ibm\IbmAssignment #128\container_registry> docker login --u https://cloud.ibm.com
API endpoint: https://cloud.ibm.com
Email: revedh3867@gmail.com

Password:
Authenticating...
Credentials were rejected.
Code: 40000001, message: The credentials you entered for the user 'revedh3867@gmail.com' are incorrect.

Password:
Authenticating...
Credentials were rejected.
Code: 40000001, message: The credentials you entered for the user 'revedh3867@gmail.com' are incorrect.

Password:
PS D:\Ibm\project\Assignments\Ibm\IbmAssignment #128\container_registry> docker login --u https://cloud.ibm.com
API endpoint: https://cloud.ibm.com
Email: revedh3867@gmail.com

Password:
PS D:\Ibm\project\Assignments\Ibm\IbmAssignment #128\container_registry> docker --registry=us.gcr.io
The registry is set to 'us.gcr.io', the registry is 'us.gcr.io'.

No resource group is targeted, therefore, the default resource group for the account ('default') is targeted.
Adding namespace 'jobportal' in resource group 'default' for account revedh3867's account in registry us.gcr.io...
```

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