

## ASSIGNMENT-4

<b>Assignment Date</b>	05 November 2022
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<b>Student Register Number</b>	111419104104
<b>Maximum Marks</b>	2 Marks

### Question 1:

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

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

### Question 2:

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

FROM

helloworld:lates

tWORKDIR

~/Desktop/

ADD .

helloworld/

WORKDIR

~/Desktop/htmlfile

RUN pip install -r

requirements RUN

chmod +x app.sh

CMD ["/bin/sh", "app.sh"]

### Question 3:

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Create an IBM container registry and deploy helloworld app or Job portal app.

### Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in node port.

The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Extensions (marked BETA), and Add Extensions. The main panel is titled 'Images on disk' and shows a summary: 'Last refresh: 8 minutes ago', '2 Images', '13.26 KB total size', and '13.26 KB / 13.26 KB in use'. Below this, the 'Images' section is active, displaying a table of local images. The table has columns for NAME, TAG, IMAGE ID, CREATED, and SIZE. Two images are listed: 'hello-world' and 'irc.io/0034ns/helloworld', both with the 'latest' tag and a size of 13.26 KB. At the bottom, there is a 'Connect to Remote Content' section with three benefits: 'Store and backup your images remotely', 'Collaborate with your team', and 'Unlock vulnerability scanning for greater security'. A 'Sign in' button is present. The status bar at the bottom indicates 'RAM 1.76GB', 'CPU 0.06%', and 'Not connected to Hub'.

NAME	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
irc.io/0034ns/helloworld	latest	feb5d9fea6a5	about 1 year ago	13.26 KB