

## ASSIGNMENT-4

Assignment Date	01 November 2022
Student Name	Buvanaa
Student Register Number	1931010
Maximum Marks	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 jobportal application and deploy it in Docker desktop application.

```
FROM helloworld:latest
```

```
WORKDIR ~/Desktop/
```

```
ADD . helloworld/
```

```
WORKDIR ~/Desktop/htmlfile
```

```
RUN pip install -r requirements
```

```
RUN chmod +x app.sh
```

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

### Question 3:

Create a IBM container registry and deploy helloworld app or job portal app.

```
Administrator: Windows PowerShell (x86)
C:\Windows\system32> docker tag hello-world icr.io/12121ns/hello-world
C:\Windows\system32> docker push icr.io/12121ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/12121ns/hello-world]
e07ee1baac5f: Mounted from hello-world
latest: digest: sha256:f5a7a8b1a1a75a7a25d70a155dc22abcf0e118b1ae776b26c1b72f1a28e1d size: 529
C:\Windows\system32>
```

#### 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 IBM Cloud Kubernetes dashboard. The cluster 'mycluster-free' is in the 'Preparing master, workers...' state and expires in 30 days. The 'Worker nodes' tab is selected, showing a table with one node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
000000b2	Normal	default	Milan 01	10.144.183.56	169.51.194.202	1.24.6_1541