

ASSIGNMENT-4

Assignment Date	01 November 2022
Team ID	PNT2022TMID25308
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
```

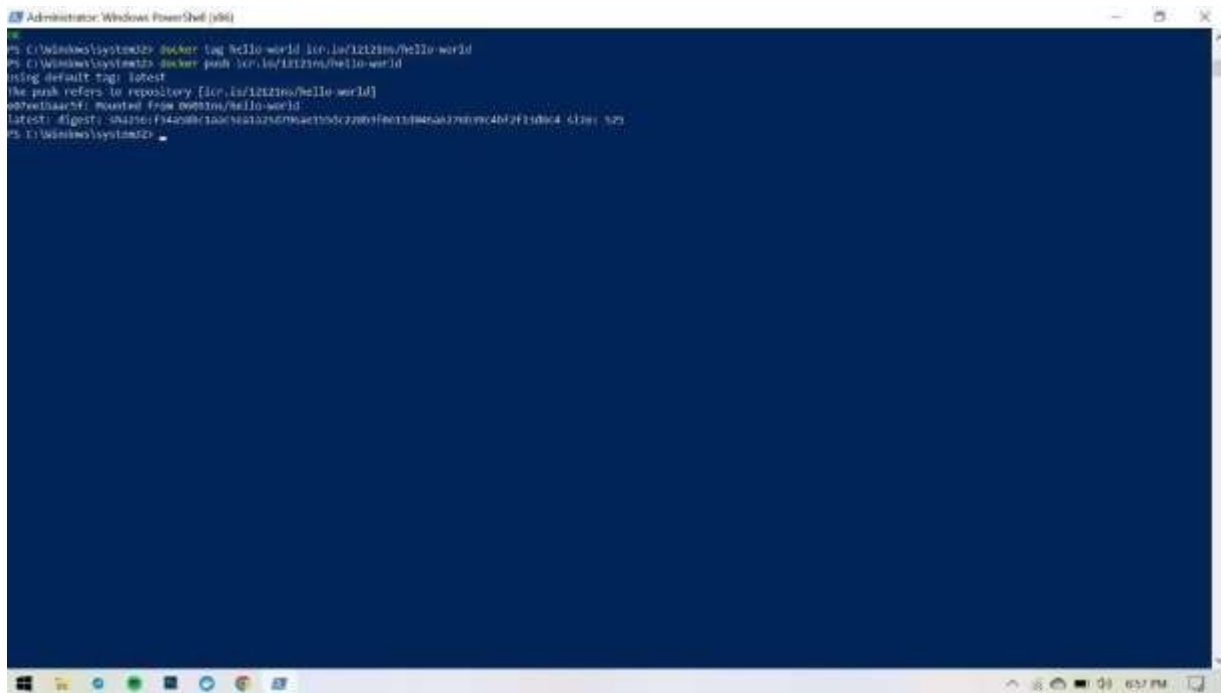
```
RUN pip install -r requirements
```

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

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

Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.



```
Administrator: Windows PowerShell (x64)
PS C:\Windows\system32> docker tag hello-world icr.io/1212106/hello-world
PS C:\Windows\system32> docker push icr.io/1212106/hello-world
Using default tag: latest
The push refers to repository [icr.io/1212106/hello-world]
e07ee1baa87f: mounted from docker.io/hello-world
latest: digest: sha256:f342208cf1a0c5a1325c09a2b5dc72809fae113846a370b09c40f2f1d0c4 Size: 525
PS C:\Windows\system32>
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

