Assignment – 4
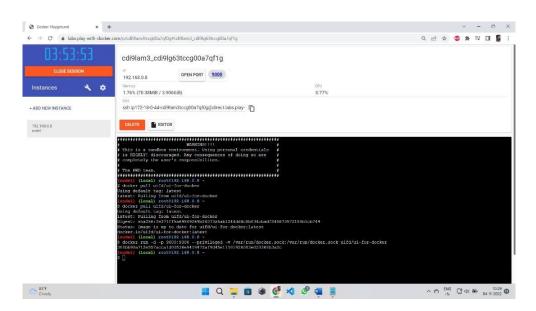
Docker and Kubernetes

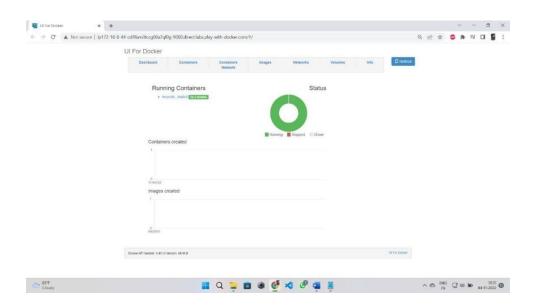| Assignment Date	02 November 2022
Student Name	NITHEESH Y
Student Roll Number	113219041133
Maximum Marks	2 Marks

Question-1:

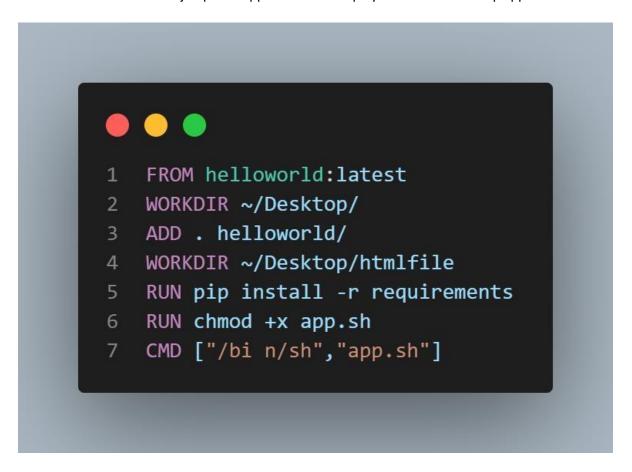Pull an Image from docker hub and run it in docker playground.

Question-2:

Create a docker file for the job portal application and deploy it in Docker desktop application.


```
1    FROM helloworld:latest
2    WORKDIR ~/Desktop/
3    ADD . helloworld/
4    WORKDIR ~/Desktop/htmlfile
5    RUN pip install -r requirements
6    RUN chmod +x app.sh
7    CMD ["/bi n/sh","app.sh"]
```

Question-3:

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

```
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
```

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 nodeport.