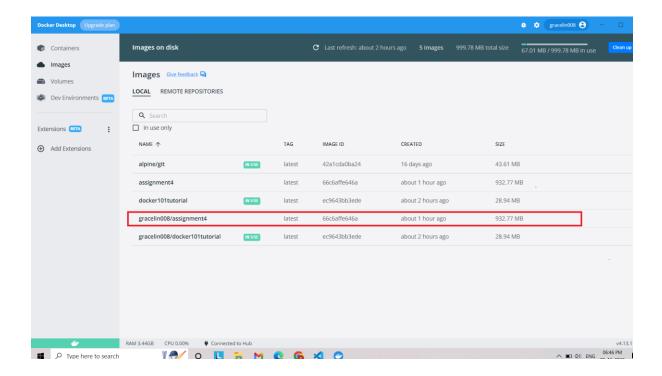
### **Assignment -4**

### **Docker and Kubernetes**

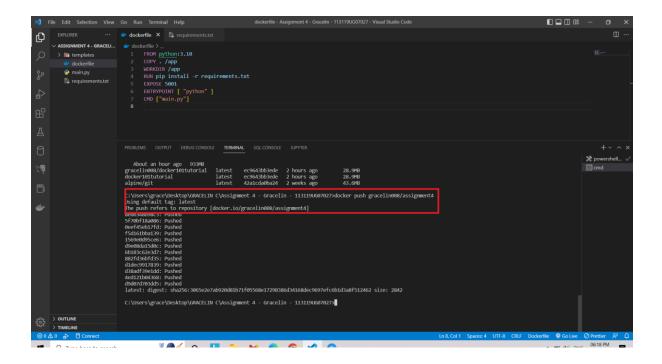
Student Name	GRACELIN C
Student Roll Number	113119UG07027
Maximum Marks	2 Marks

### 1. Pull an image from docker hub and run it in docker Playground

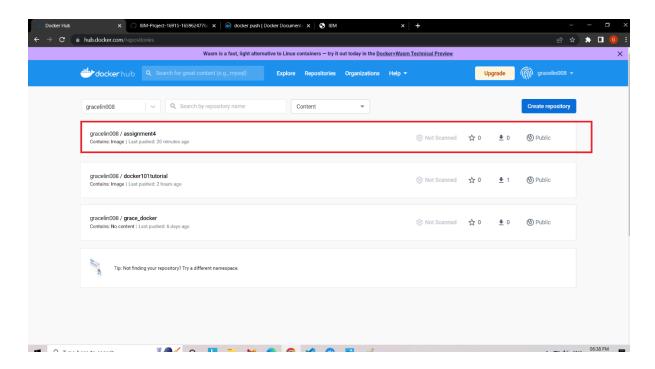
>> The image is built in docker desktop



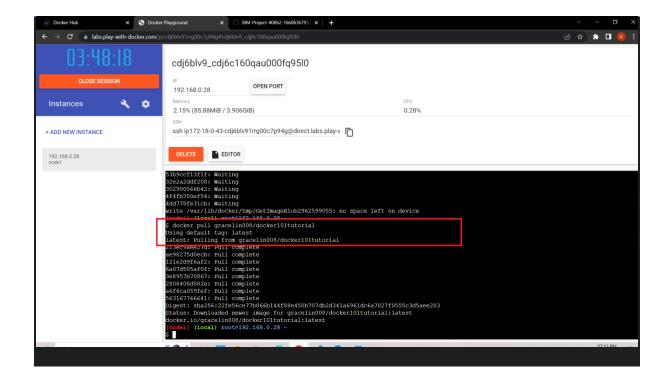
>> Then it is pushed to dockerhub using the command



## Thus the image named assignment4 is successfully pushed to dockerhub



>> Pulled an image from docker hug and ran in dockerplaygound



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

#### **Docker File**

```
FROM python:3.10

COPY . /app

WORKDIR /app

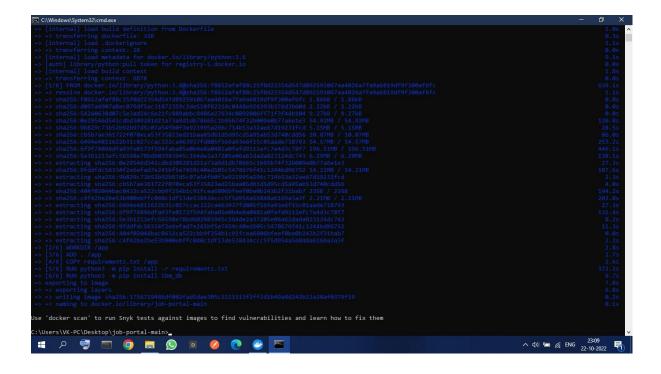
RUN pip install -r requirements.txt

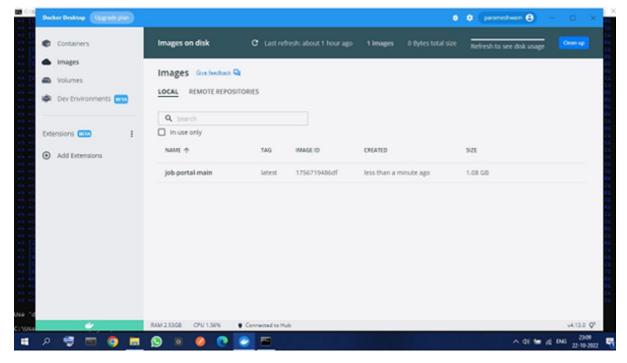
EXPOSE 5001

ENTRYPOINT [ "python" ]

CMD ["main.py"]
```

Thus docker file is created

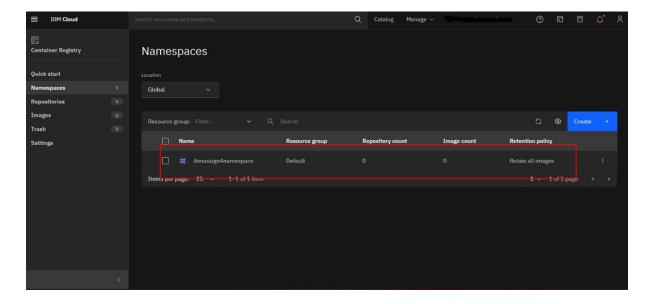




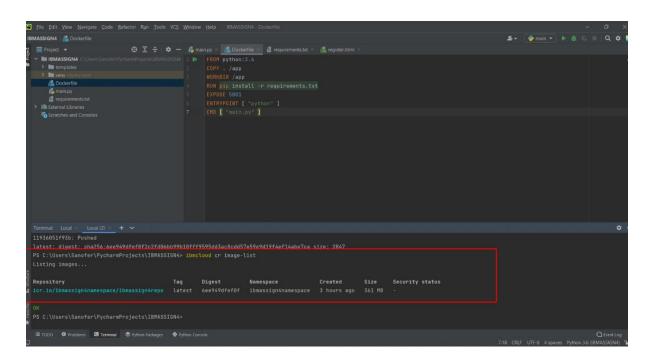
# 3. Create a IBM container registry and deploy helloworld app

Container registry created using

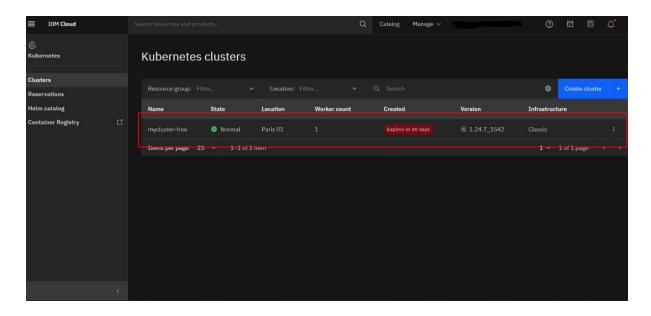
- > docker tag sanoferrasheed/ibmassign4deploy:latest icr.io/ibmassign4namespace/ibmassign4repo:latest
- > docker push icr.io/ibmassign4namespace/ibmassign4repo:latest



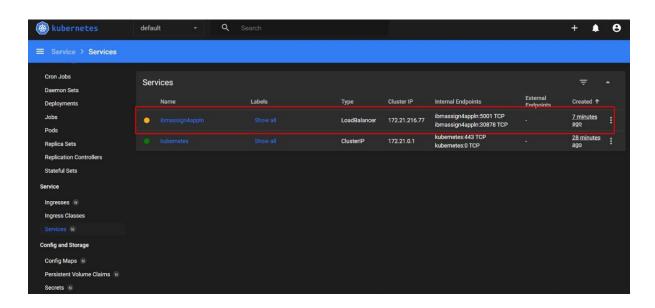
Thus, images in container registry are listed



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



#### cluster is created



APP IS LIVE AT <a href="http://159.122.174.152:30878/">http://159.122.174.152:30878/</a>