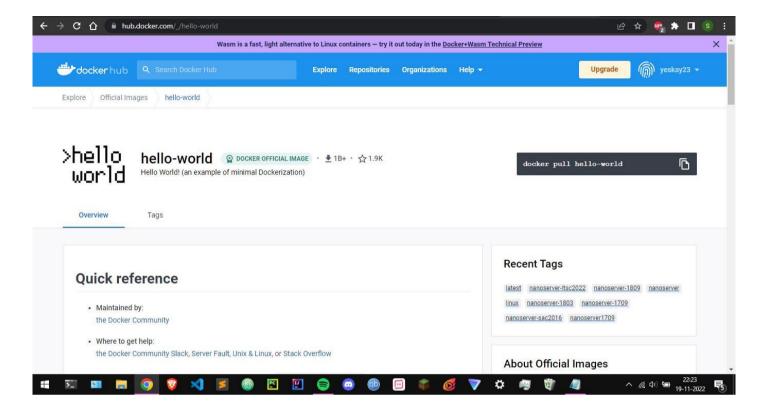
#### **ASSIGNMENT-4**

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

Logged in to dockerhub and found an image



Pulled that image locally to machine

```
Windows PowerShell X + \( \sim \) — \( \sigma \) X

Windows PowerShell (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

Loading personal and system profiles took 680ms.

yeskay at \( \sigma \) via \( \sigma \) v14.15.1

\( \frac{\} \) docker pull hello-world

Using default tag: latest
latest: pulling from library/hello-world

2db29710123e: Pull complete

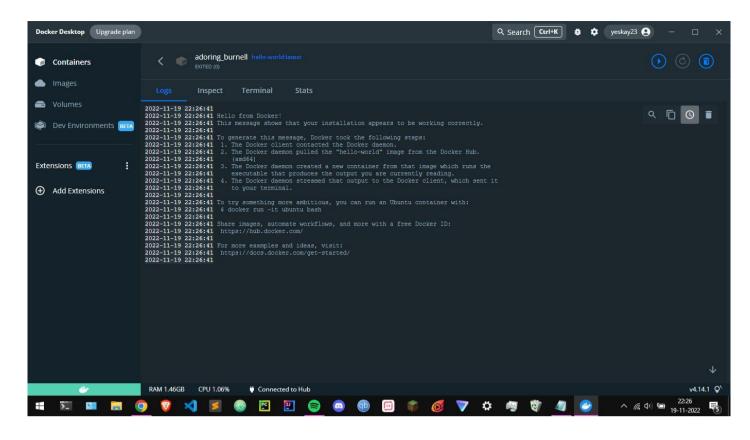
Digest: sha256:faa03e786c97f97ef34423fccceeec2398ec8a5759259f94d99078f264e9d7af

Status: Downloaded newer image for hello-world:latest

docker.io/library/hello-world:latest

yeskay at \( \sigma \) via \( \sigma \) v14.15.1 took 6s

\( \frac{\} \) |
```



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

### Dockerfile:

```
FROM python:3.6

COPY . /app

WORKDIR /app

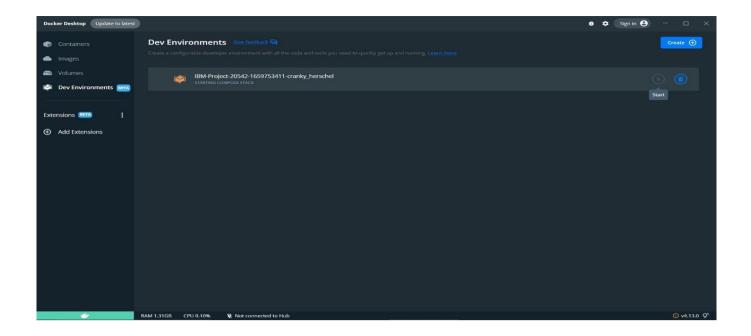
RUN pip install -r requirements.txt

EXPOSE 5001

ENTRYPOINT [ "python" ]

CMD [ "main.py" ]
```

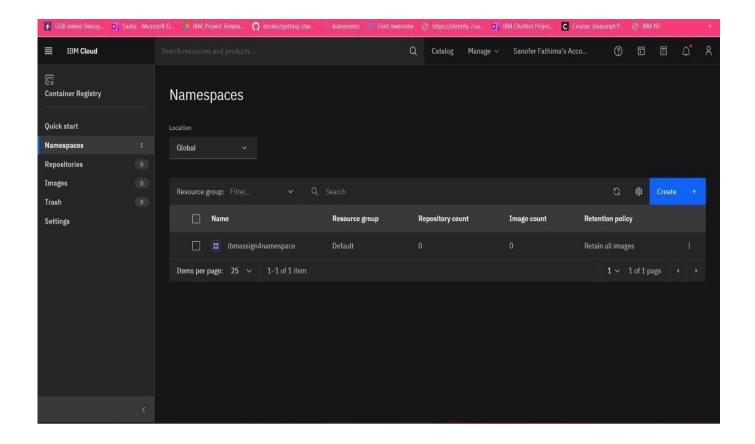
Thus docker file created and deployed in docker desktop.



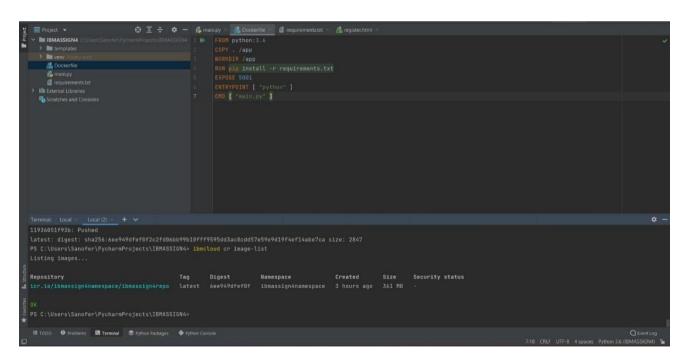
# 3. Create a IBM container registry and deploy hello world app.

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.

Thus, cluster is created.

