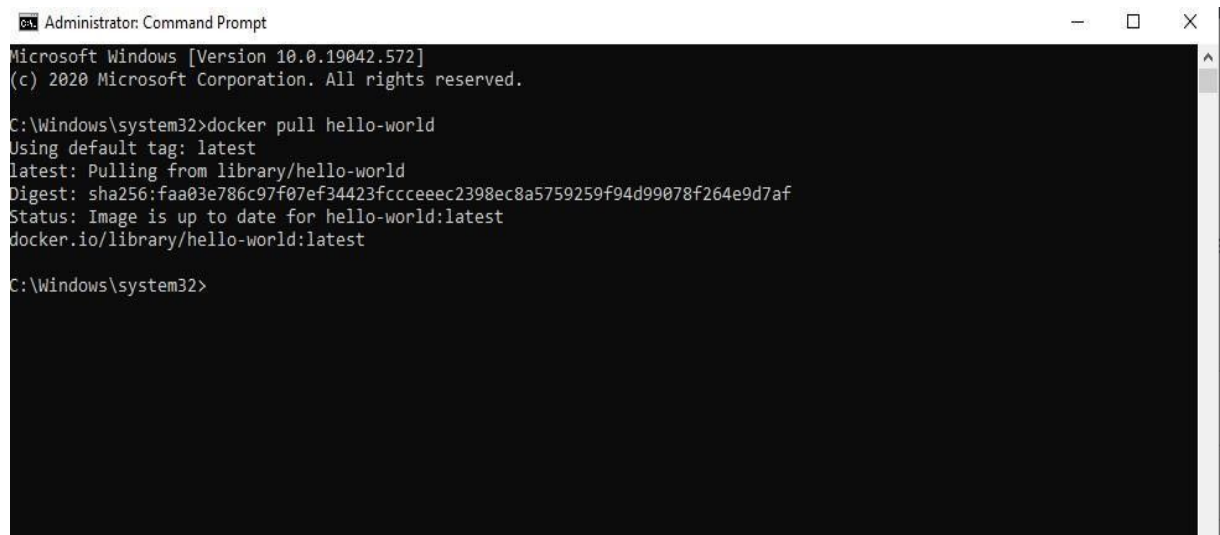


## Assignment - 4

|                     |              |
|---------------------|--------------|
| Student Name        | Sowndariya.R |
| Student Roll Number | 820319205035 |
| Date                | 19 Nov 2022  |
| Maximum Marks       | 2 Marks      |

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



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.572]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Windows\system32>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceeec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

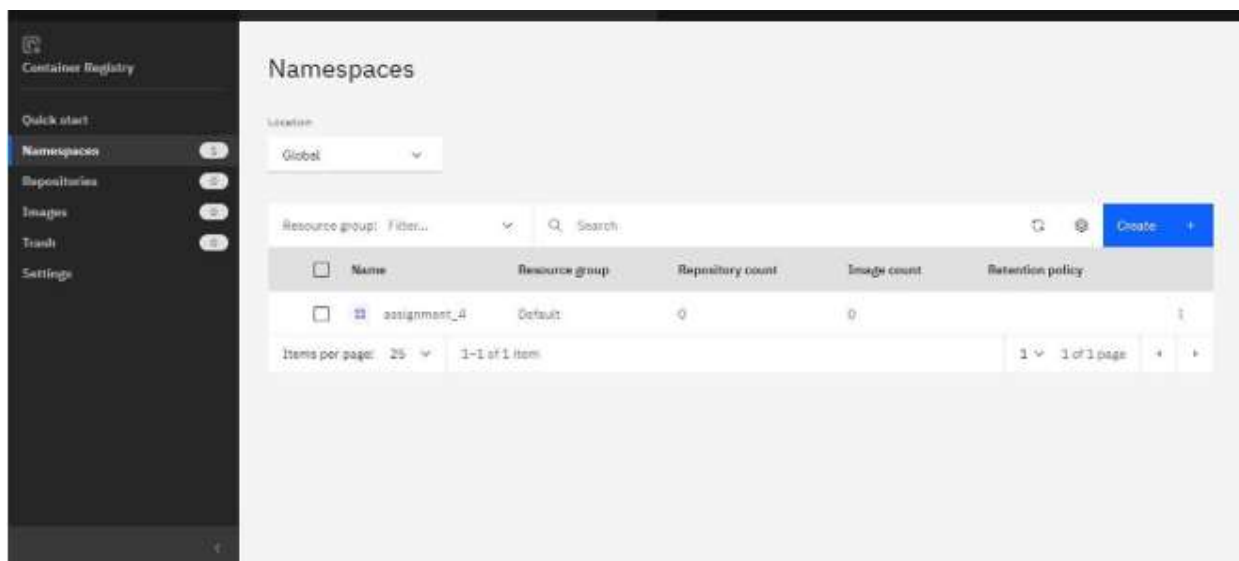
C:\Windows\system32>
```

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


```
FROM jobportal:latest
COPY ./app
WORKDIR /app
ADD .jobportal/
```

RUN pip install -r requirements  
CMD ["app.py"]

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



**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.**

Kubernetes

Clusters

Reservations


Helm catalog

Container Registry

### Kubernetes clusters

Resource group: Filter...Location: Filter...Search

Create cluster

| Name           | State  | Location | Worker count | Created            | Version     | Infrastructure |
|----------------|--|----------|--------------|--------------------|-------------|----------------|
| mycluster-free |  Normal | Paria    | 3            | Expires in 20 days | 1.24.7_3542 | Classic        |

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