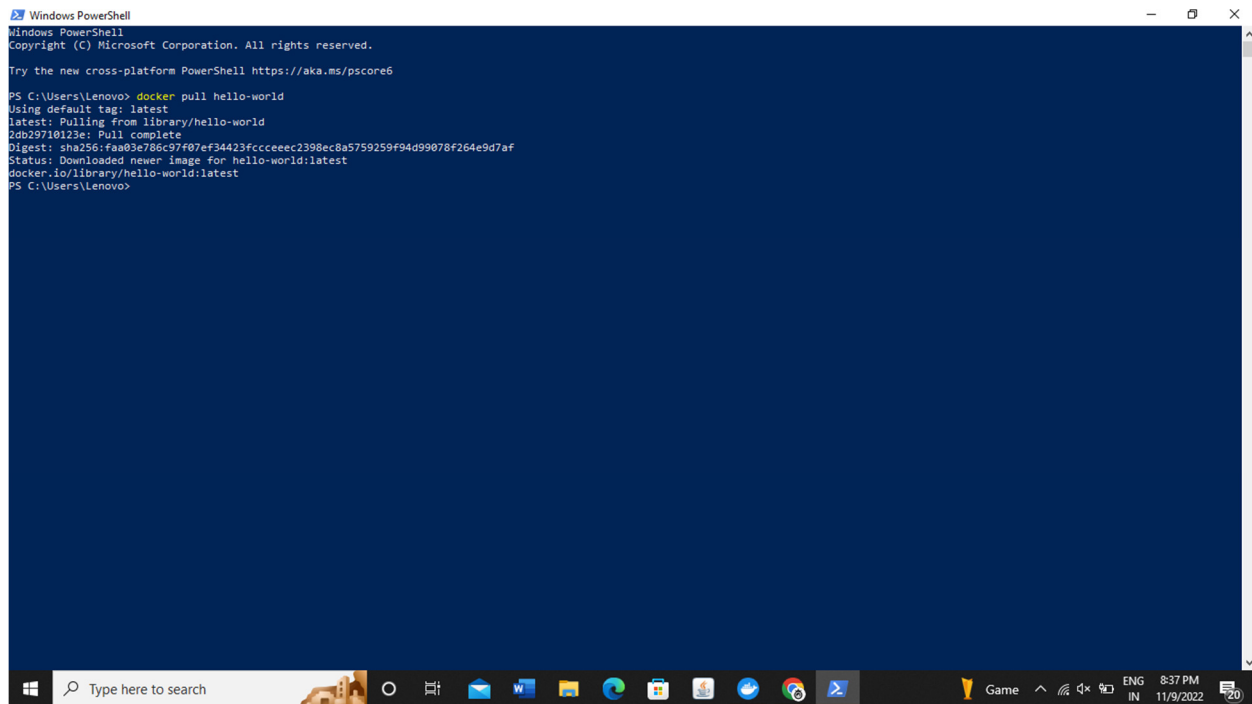


ASSIGNMENT – 4

Student Name	Oviyashree.A
Register Number	311419104061

Question 1:

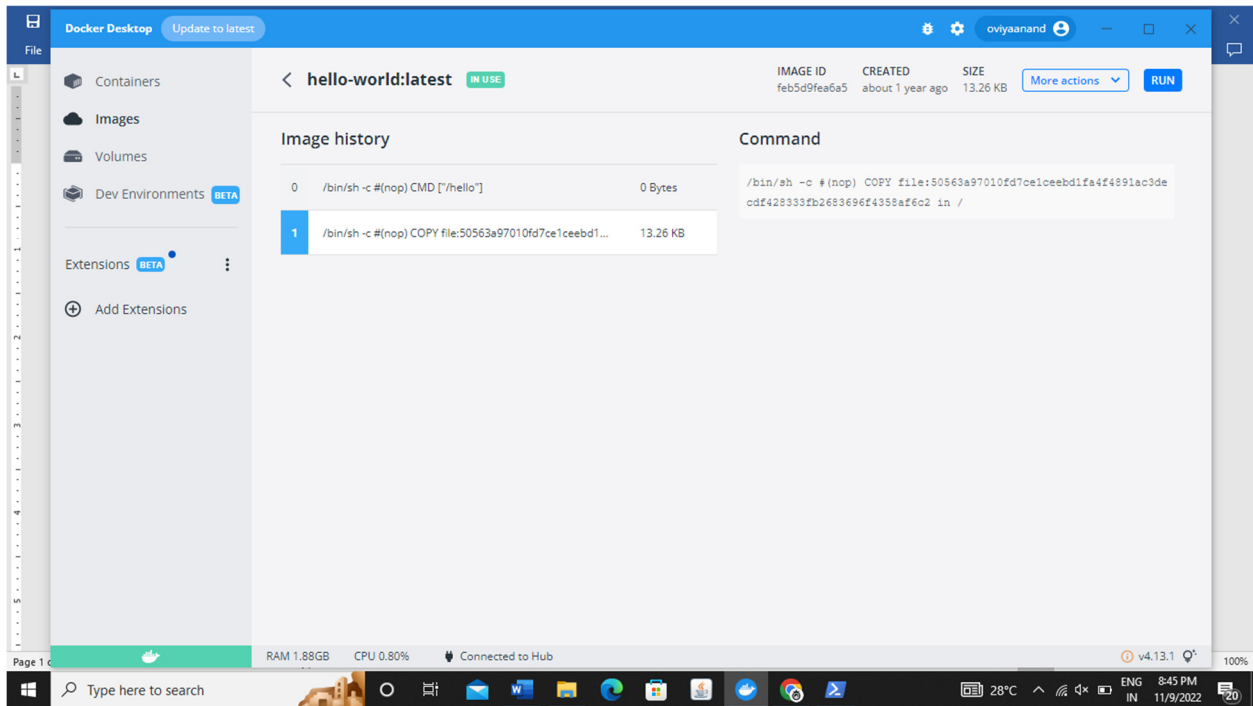
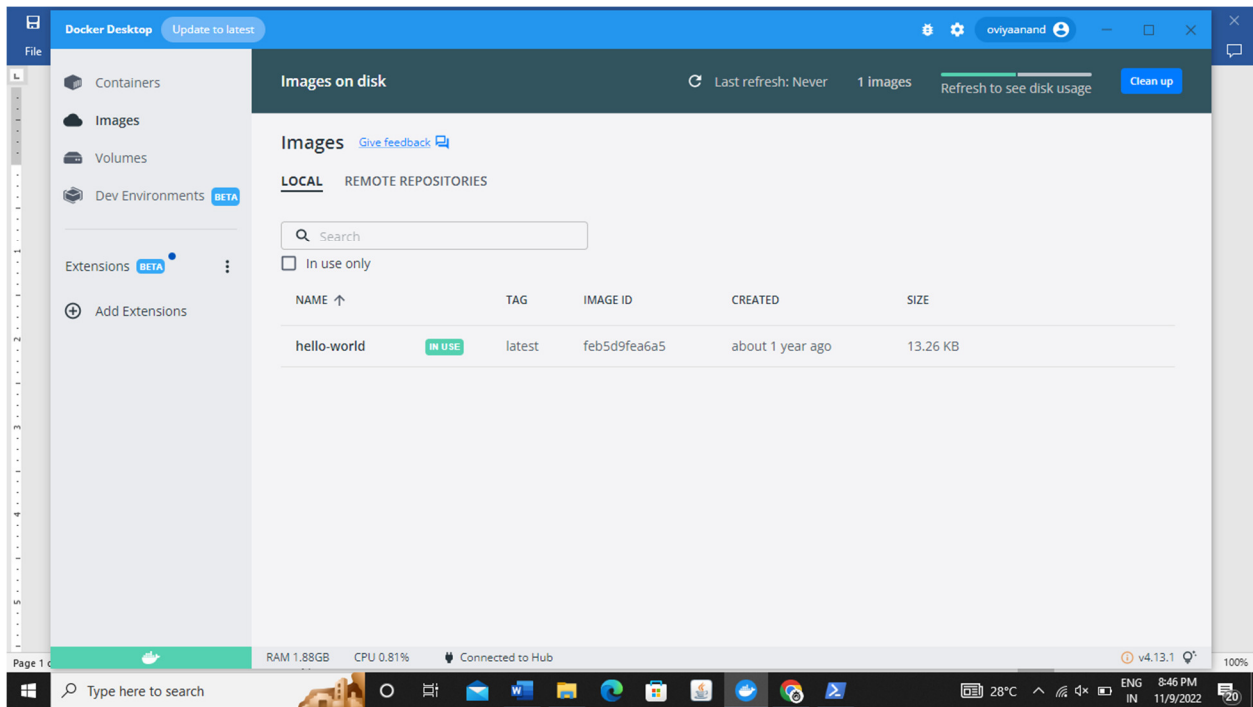
Pull an image from docker hub and run it in docker play ground



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

PS C:\Users\Lenovo> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa93e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Users\Lenovo>
```



Question – 2:

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

```
FROM helloworld:sk
```

```
WORKDIR ~/Desktop/
```

```
ADD . helloworld/
```

```
WORKDIR~/Desktop/IBMproj
```

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

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

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

Question 3:

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

```

PS C:\WINDOWS\system32> docker tag hello-world icr.io/67890ns/hello-world
PS C:\WINDOWS\system32> docker push icr.io/67890ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/67890ns/hello-world]
e07eelbaac5f: Mounted from 54321ns/hello-world
latest: digest: sha256:f54a58bc1aac5e1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\WINDOWS\system32> ibmcloud cr image-list
Listing images...

```

Question 4:

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

The screenshot shows the IBM Cloud Kubernetes dashboard. The cluster 'mycluster-free' is in a 'Provision pending' state, with a message 'Preparing master, workers...' and a warning 'Expires in 30 days'. The dashboard includes a sidebar with 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps' (marked as 'New'). The main area displays a table of worker nodes.

Pool	Filter...	Search		Name	Status	Worker pool	Zone	Private IP	Public IP	Version
▼	<input type="checkbox"/>	00000081		Provision pending	default	Milan 01				--> 1.24.7_1543

Items per page: 25 | 1-1 of 1 item | 1 | 1 of 1 page

Redirecting...WhatsAppAssignment4.pdfmycluster-free - IBM Cloud

cloud.ibm.com/kubernetes/clusters/cdm98hhf07fj3qamd25g/nodes

YouTubeMaps

IBM Cloud

Search resources and products...

CatalogManageoviya shree's Account

Clusters /

mycluster-free

Preparing master, workers...Expires in 30 daysAdd tagsHelpKubernetes dashboardActions...

Overview

Worker nodes

Worker pools

DevOpsNew

Pool: Filter...SearchAdd

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	00000081	Provisioning	default	Milan 01			--> 1.24.7_1543
ID kube-cdm98hhf07fj3qamd25g-myclusterfr-default-00000081							
Status --		Flavor Free - 2 vCPUs 4GB RAM		Private VLAN 2218181		Public VLAN 2218179	

Items per page: 251-1 of 1 item11 of 1 page

Type here to search

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