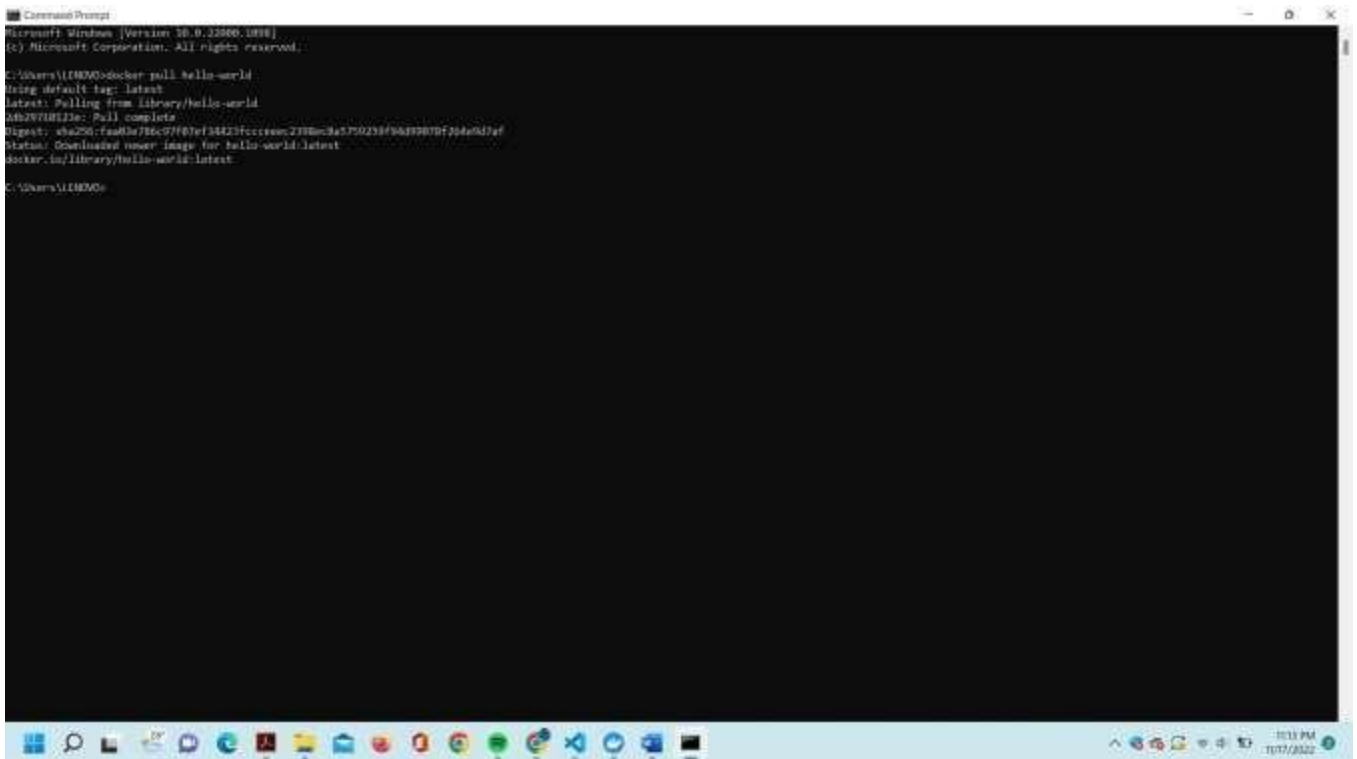


## ASSIGNMENT 04

Assignment Date	20 November 2022
Team ID	PNT2022TMID46377
Team Members	Pasupathy G, Arul M, Gopinath B, Ramaprabhakaran R
Maximum Marks	2 Marks

### Question 1:

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



```
Microsoft Windows [Version 10.0.22000.1898]
(c) Microsoft Corporation. All rights reserved.

C:\Users\IIMMO>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
a3b27711d13e: Pull complete
Digest: sha256:f2a00378c97707ef34423f1c1e0e2738b3a5750238f9b49907bf94e6d7ef
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\IIMMO>
```

### Question 2:

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

```
FROM helloworld:latest
```

```
WORKDIR ~/Desktop/
```

```
ADD . helloworld/
```

```
WORKDIR ~/Desktop/htmlfile
```

RUN `pip install -r requirements`

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

### Question 3:

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

```
File Edit Selection View Git Rar Terminal Help Get Started Kubernetes Docs  
EXPLORER PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL ACTIVITY  
v KUBE  
Options:  
-a, --all-tags Push all tagged images in the repository.  
--disable-content-trust Skip image signing (default true)  
-q, --quiet Suppress verbose output  
PS C:\Users\LENNON\Desktop> docker push -a  
The term '-a' is not recognized as the name of a cmdlet, function, script file, or executable program.  
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.  
PS C:\Users\LENNON\Desktop> docker login --username linnload --password 'linnload' --login  
Logging 'docker' in to 'icr.io'...  
logged in to 'icr.io'.  
  
OK  
PS C:\Users\LENNON\Desktop> docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
Digest: sha256:fadde8f8dc39f9eef54d7fc0ccccc228ec6c575025f540390bf25aed7af  
Status: Image is up to date for hello-world:latest  
docker.io/library/hello-world:latest  
PS C:\Users\LENNON\Desktop> docker pull icr.io/hello-world:hello/v1  
PS C:\Users\LENNON\Desktop> docker tag hello-world icr.io/hello-world/hello/v1  
PS C:\Users\LENNON\Desktop> docker push icr.io/hello-world/hello/v1  
The push refers to repository [icr.io/hello-world/hello]  
e0ee2baacf1 pushed  
Pushed https://icr.io/v2/hello-world/hello/blobs/uploads/?c=fd3cf3f-c5d4-4d8c-b934-a445750c4e01;state=push&mode=toFirstByteBshaF7f7b03c9a19e7yvw/Tk3HpaioCJndkxby3bc3zbc5w0o0a0t1WVU1Zj0lwwmWwQVTVZk0m0MgYhN4QStCMFH00uMfSvZkdllLzncZVOJdC1K0rytkAq0qllizym0ysTExT6AW000Jw0Jw0J4eXp0tYyd0i0t0  
X0d0P7 Pulling from icr.io/hello-world:hello/v1  
Digest: sha256:fadde8f8dc39f9eef54d7fc0ccccc228ec6c575025f540390bf25aed7af  
Status: Image is up to date for icr.io/hello-world/hello/v1:latest  
PS C:\Users\LENNON\Desktop> docker push icr.io/hello-world/hello/v1  
The push refers to repository [icr.io/hello-world/hello]  
e0ee2baacf1 layer already exists  
v1: Digest: sha256:fadde8f8dc39f9eef54d7fc0ccccc228ec6c575025f540390bf25aed7af Size: 505  
PS C:\Users\LENNON\Desktop> docker login --username linnload --password 'linnload' --image-list  
Listing images...  


| Repository               | Tag | Digest     | Namespace   | Created    | Size   | Security status |
|--------------------------|-----|------------|-------------|------------|--------|-----------------|
| icr.io/hello-world/hello | v1  | f540dbctac | hello-world | 1 year ago | 2.3 MB | -               |

  
OK  
PS C:\Users\LENNON\Desktop> docker cluster config --cluster cdk07jrf0mgapfkfky  
OK  
The configuration for cdk07jrf0mgapfkfky was downloaded successfully.  
  
Added context for cdk07jrf0mgapfkfky to the current kubeconfig file.  
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.  
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while kube synchronizes.  
PS C:\Users\LENNON\Desktop>
```

#### Question 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.

