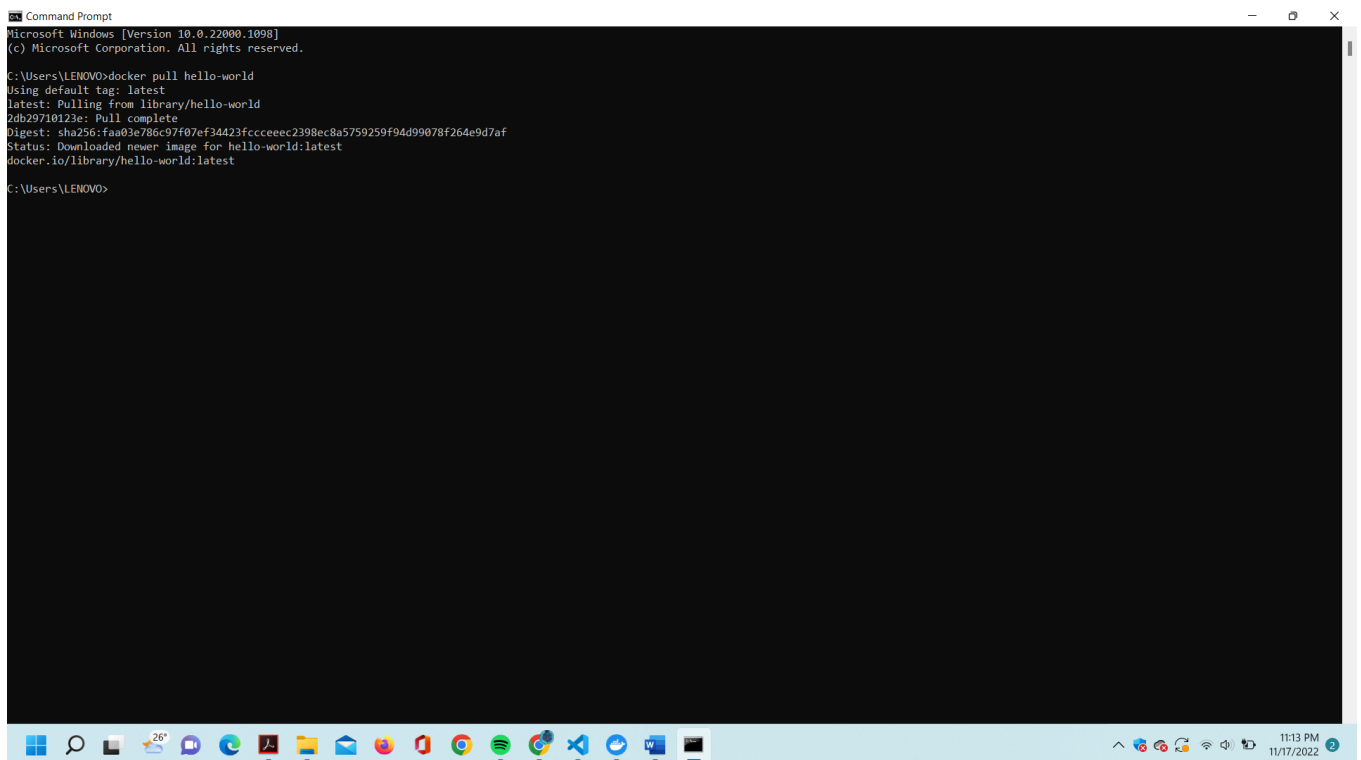


ASSIGNMENT-4

Assignment Date	03 November 2022
Team ID	PHT2022TMID32793
Maximum Marks	2 Marks

Question 1:

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



```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\LENOVO>
```

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

RUN chmod +x app.sh

CMD

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

Question 3:

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

```

File Edit Selection View Go Run Terminal Help
Get Started - kube - Visual Studio Code

EXPLORER
KUBE

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

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\LENOVO\OneDrive\Desktop\IBM\kube> -a
- The term '-a' is not recognized as a 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\LENOVO\OneDrive\Desktop\IBM\kube> ibmcloud cr login
Logging 'docker' in to 'icr.io'...
logged in to 'icr.io'.

OK
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:f4a58b31aac5e1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube>
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> docker tag hello-world icr.io/hello-world1/hello:v1
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> docker push icr.io/hello-world1/hello:v1
The push refers to repository [icr.io/hello-world1/hello]
e07ee1baac5f: Pushed
Patch "https://icr.io/v2/hello-world1/hello/1/blobs/uploads/0-f5f63f-c6d4-4d8c-8b2d-aae57519c4e? state=rvSWz9zG1bfrb0lyp1hwzhl7T1nxiVzultEYvV7IKShWui0iJozMxshy1B33zDZv6v8k81CJWU1E1joiaWMMW2W2YvZzKk00ZDhJLThiWj0tYtMDU3NTE5vZRLiwiT2ZmC2w01Jow.CJIdfyd6vK0Q0i0iYmDyJLTeXLTE4VDS0Jw0ExtJ3a0M0Qx004yNl0ifqX30X30": dialing icr.io:443 no HTTPS proxy; connecting to 169.60.98.86:443; dial tcp 169.60.98.86:443: i/o timeout
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> docker push icr.io/hello-world1/hello:v1
The push refers to repository [icr.io/hello-world1/hello]
e07ee1baac5f: Layer already exists
v1: digest: sha256:f54a58b31aac5e1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> ibmcloud cr image-list
Listing images...

Repository      Tag      Digest      Namespace      Created      Size      Security status
icr.io/hello-world1/hello v1      f54a58b31aac hello-world1  1 year ago  2.5 kB      -

OK
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube> ibmcloud ks cluster config --cluster cdk57juf0eqnqkfptkg
OK
The configuration for cdk57juf0eqnqkfptkg was downloaded successfully.

Added context for cdk57juf0eqnqkfptkg 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 RBAC synchronizes.
PS C:\Users\LENOVO\OneDrive\Desktop\IBM\kube>
  
```

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.

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