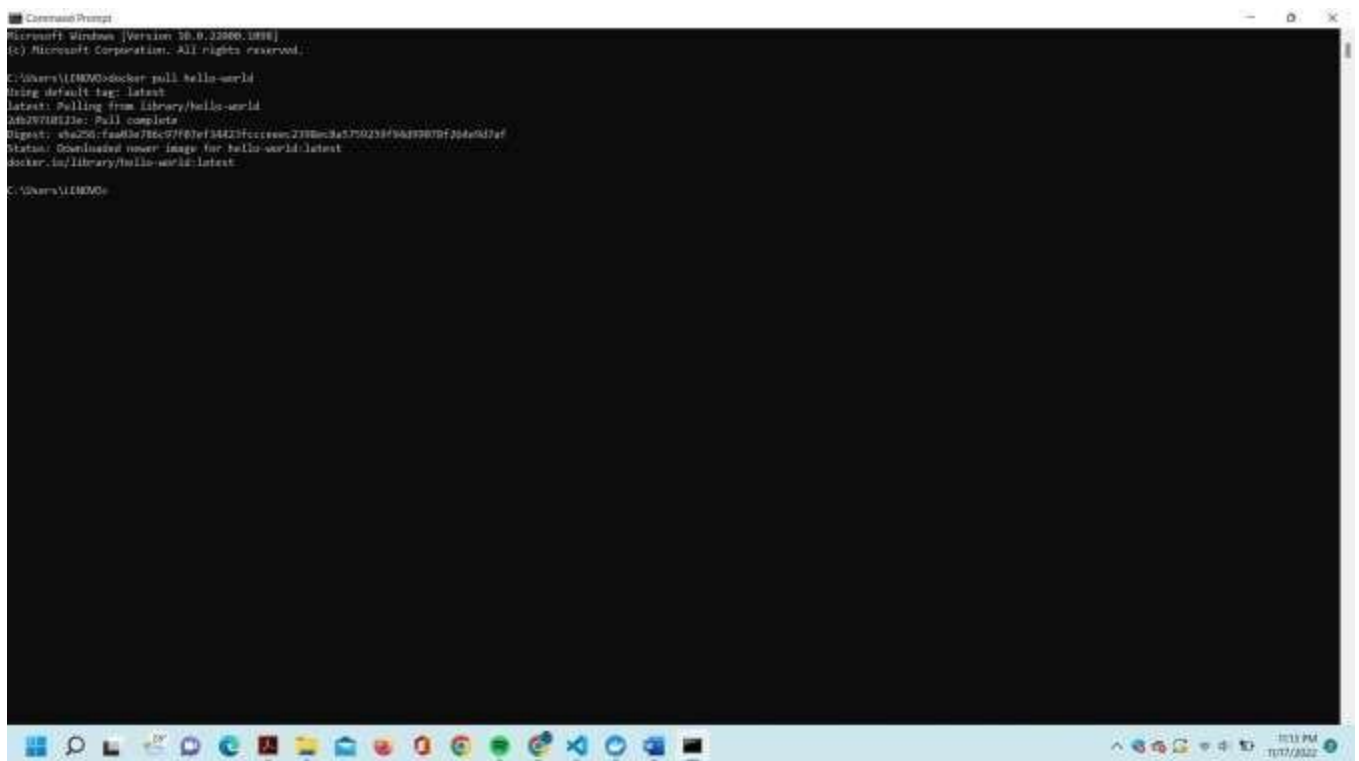


ASSIGNMENT 04

Assignment Date	25 November 2022
Team ID	PNT2022TMID46372
Maximum Marks	2 Marks

Question 1:

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



```
C:\Users\111000>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
sha256:325b46944494177a388c791e005a20b88c715428401b26f32a4916564e06000f
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
C:\Users\111000>
```

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"]
```

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

```
> File Edit Selection View Gt Ruler Terminal Help Get Started Kubernetes Visual Studio Code  
EXPLORER PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL ACTIVITY  
  
▼ KUBERNETES  
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\JLHMO\Desktop> docker push icr.io/hello-world  
The term '<' 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\JLHMO\Desktop> docker login hello.world &&  
Logging `docker` in to `icr.io`...  
logged-in-to:`icr.io`.  
  
OK  
PS C:\Users\JLHMO\Desktop> docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
Digest: sha256:faddece3f2eaf29d3cfccccc229beec675029f54db99bf5aeed7af  
Status: Image is up to date for hello-world:latest  
docker.io/library/hello-world:latest  
PS C:\Users\JLHMO\Desktop> docker tag hello-world icr.io/hello-world/hello-v1  
PS C:\Users\JLHMO\Desktop> docker push icr.io/hello-world/hello-v1  
The push refers to repository [icr.io/hello-world/hello]  
efebbaacf1 pushed  
Push "https://icr.io/v2/hello-world/hello/index/upload?cfcfdcr=cd5Adbc8B94aa575Dc4d": state->successToFirstByteWithSha /FinalizeFullYvW/TkSPwadiCNode  
xbyj3bz3z2ZswabozGatTQVUoZoMmwwarACVTy2McRMnRgThP4StCMFHAGWHFZFkilledTime2003wdCTIdKryBAGqqimIgmoyjsFEAtEAWOCojawrcdJAnepxOtyndoiHg  
Xubdzr7 Pulling icr.io/hello-world/hello:v1 (sha256: faddece3f2eaf29d3cfccccc229beec675029f54db99bf5aeed7af) |>/etc/passwd| l/c checked  
PS C:\Users\JLHMO\Desktop> docker push icr.io/hello-world/hello  
The push refers to repository [icr.io/hello-world/hello]  
efebbaacf1 Layer already exists  
vt: digest: sha256:F445bctaac6eacbd96aetbbdc22b7feelD86aaa2cb9ca4dfF13BCa size: 515  
PS C:\Users\JLHMO\Desktop> docker load &&  
Listing images...  
  
Repository Tag Digest Namespace Created Size Security status  
icr.io/hello-world/hello v1 F445bctaac helloworld 1 year ago 2.3 MB  
  
OK  
PS C:\Users\JLHMO\Desktop> kubectl apply -f cluster.yaml  
OK  
The configuration for efb573rf8agapkfity was downloaded successfully.  
  
Added context for efb573rf8agapkfity to the current kubeconfig file.  
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.  
If you are executing the cluster for the first time, 'kubectl' commands might fail for a few seconds while MMC synchronizes.  
PS C:\Users\JLHMO\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.

