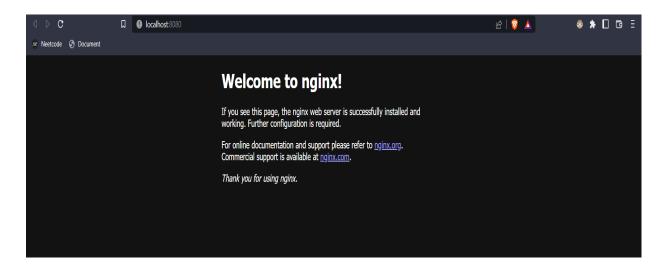
Assignment -4

Student Name	Robin J
Student Roll Number	737819CSR163
Maximum Marks	2 Marks

Question-1:

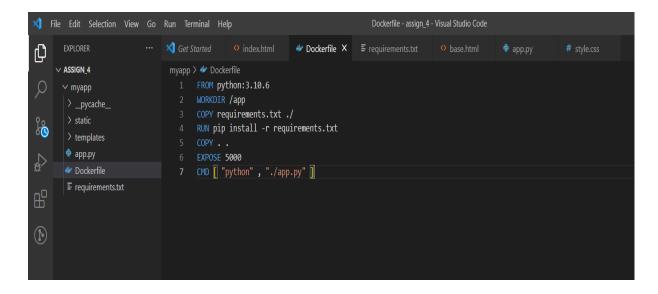
Pull an image from the docker hub and run it in the docker playground

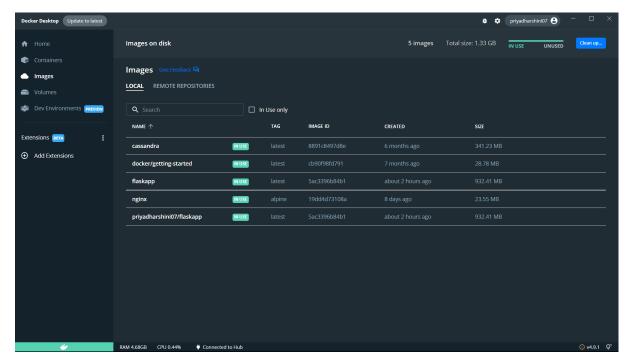
```
Command Prompt
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Sathasivam>docker images
REPOSITORY
                                       IMAGE ID
                                                       CREATED
                             TAG
                                                                       SIZE
flaskapp
                             latest
                                        5ac3396b84b1
                                                       2 hours ago
                                                                       932MB
priyadharshini07/flaskapp
                                                                       932MB
                             latest
                                        5ac3396b84b1
                                                       2 hours ago
cassandra
                                       8891c8497d8e
                                                       5 months ago
                                                                       341MB
                             latest
docker/getting-started
                                       cb90f98fd791
                                                      7 months ago
                                                                       28.8MB
                             latest
C:\Users\Sathasivam>docker pull nginx:alpine
alpine: Pulling from library/nginx
ca7dd9ec2225: Already exists
76a48b0f5898: Pull complete
2f12a0e7c01d: Pull complete
1a7b9b9bbef6: Pull complete
b704883c57af: Pull complete
4342b1ab302e: Pull complete
Digest: sha256:455c39afebd4d98ef26dd70284aa86e6810b0485af5f4f222b19b89758cabf1e
Status: Downloaded newer image for nginx:alpine
docker.io/library/nginx:alpine
C:\Users\Sathasivam>docker run --name nginx-run -d -p 8080:80 nginx:alpine
0105579d2f43e44a3d4cbb7cd8062f9c13b6790c7a66bdffefe9bce0ecf1629f
```



Question 2:

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





Question 3:

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

```
Command Prompt

C Users Stathasi vamableacloud or namespace add item assign on resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'item_assign' in resource group 'Default' for account Priyadharshini S's Account in registry jp.icr.io...

Successfully added namespace "item_assign"

OC (Users Stathasi vamableacloud or namespace—list v Listing namespaces for account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Namespace Resource Group Created in assign of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Namespace Resource Group Created in assign of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

C (Users Stathasi vamabocker tag flaskapp jp.icr.io/ibm_assign/flaskapp) latest Saca 390648811 20 hours ago 93798

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

C (Users Stathasi vamabocker tag flaskapp jp.icr.io/ibm_assign/flaskapp) latest Saca 390648811 20 hours ago 93798

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

C (Users Stathasi vamabocker tag flaskapp latest Saca 390648811 20 hours ago 93798

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

C (Users Stathasi vamabocker tag flaskapp latest Saca 390648811 20 hours ago 93798

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

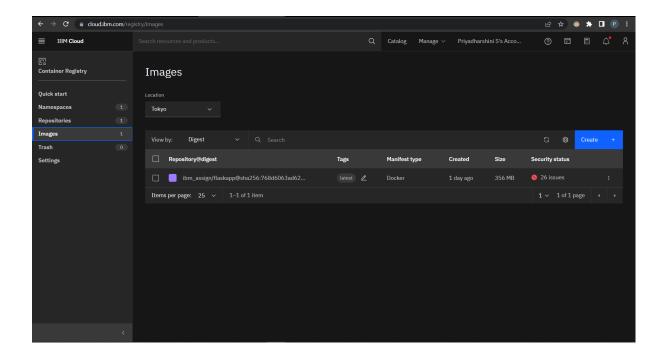
C (Users Stathasi vamabocker tag flaskapp latest Saca 390648811 20 hours ago 93798

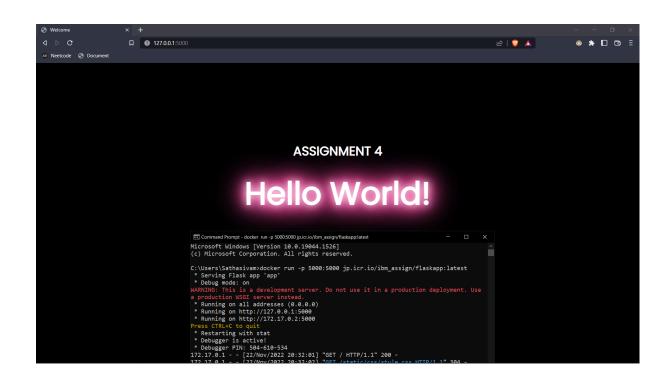
Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...

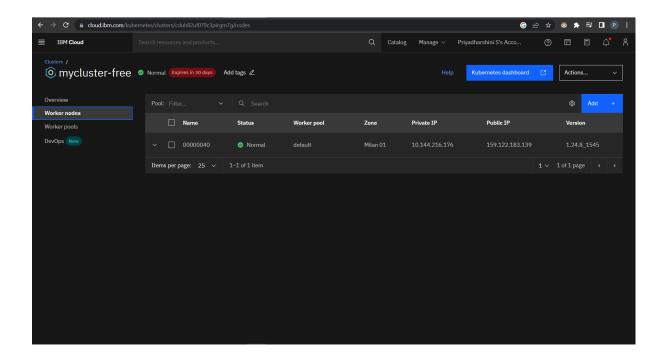
Information of the account 'Priyadharshini S's Account' in registry 'jp.icr.io'...
```

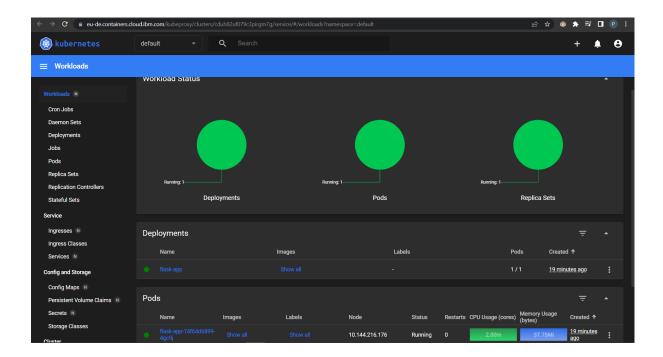




Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.





```
C: Users\Sathasivam>ubectil describe deployments flask-app
Hame: flask-app
Hamespace: default
CreationTimestamp: Med, 23 Nov 2022 00:59:59 +0530
Lubels: (none)
Amonotations: deployment.kubernetes.io/revision: 1
deployment.io/revision: 1
deployment.io/revisi
```