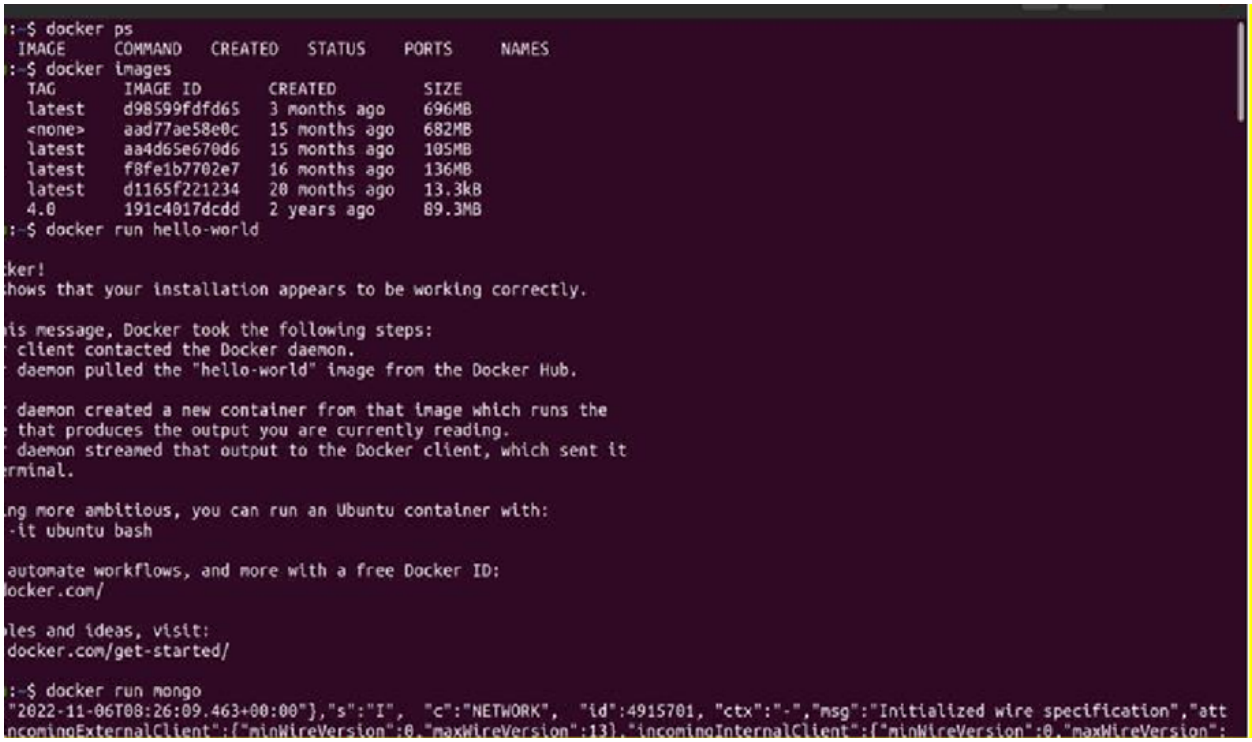
Assignment - 4

Date	October 8 2022
Student Name	Dhinesh M N
Student Roll Number	917719C019
Maximum Marks	2 Marks

Tasks:

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



Pull image from Docker Hub and run it

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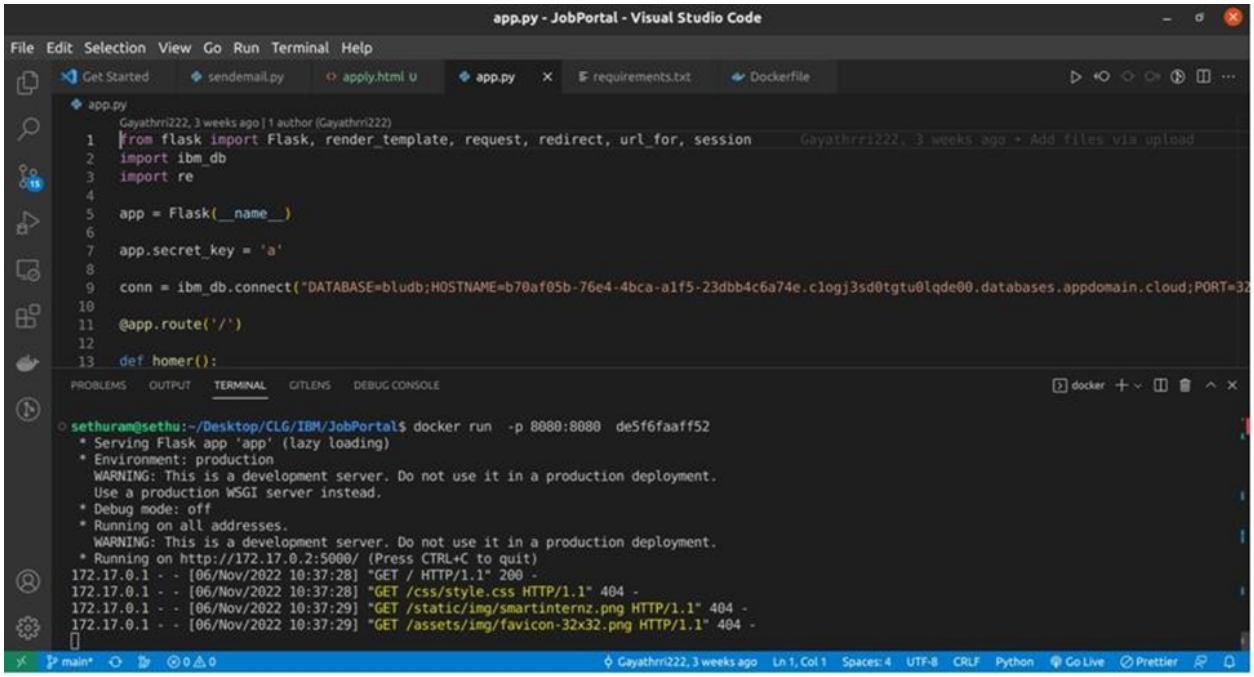
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.



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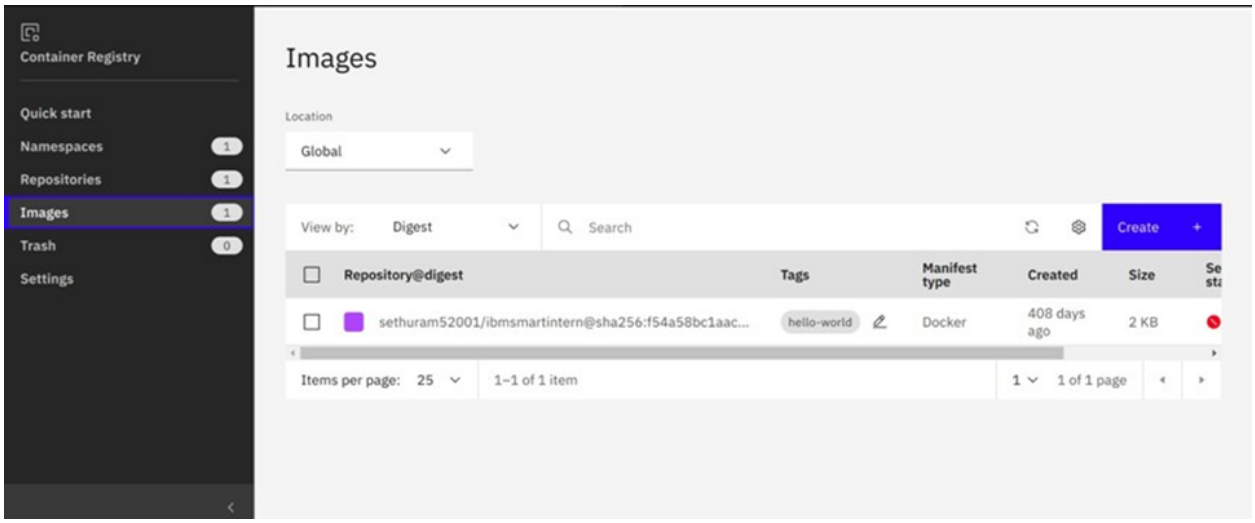
3. Create a IBM container registry and deploy helloworld app or jobportalapp.

```
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ ibmcloud cr namespace-add sethuram52001
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'sethuram52001' in resource group 'Default' for account Sethuram Venkatesan's Account in registry icr.io...

Successfully added namespace 'sethuram52001'

OK
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ docker tag hello-world icr.io/sethuram52001/ibmsmartintern:hello-world
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ docker push icr.io/sethuram52001/ibmsmartintern:hello-world
The push refers to repository [icr.io/sethuram52001/ibmsmartintern]
e07ee1baac5f: Pushed
hello-world: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$ ibmcloud cr image-list
Listing images...

Repository                          Tag         Digest      Namespace     Created      Size    Security status
icr.io/sethuram52001/ibmsmartintern   hello-world   f54a58bc1aac   sethuram52001   1 year ago   2.5 kB   -

OK
sethuram@sethu:~/Downloads/IBM_Cloud_CLI_2.12.1_amd64/Bluemix_CLI$
```



4) Create Kubernetes Cluster in IBM cloud and deploy hello world image or job portal image and expose the app to run in nodeport.