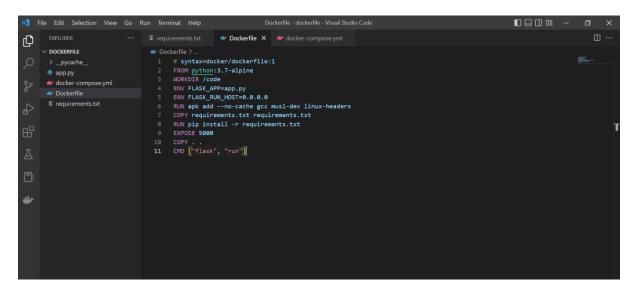
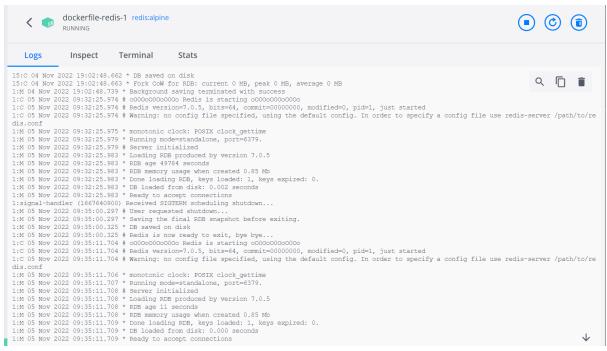
ASSIGNMENT – 4

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

```
(base) PS C:\Users\MCS> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
(base) PS C:\Users\MCS>
```

Question 2: Create a docker file for the helloworld application and deploy it in Docker desktop application.





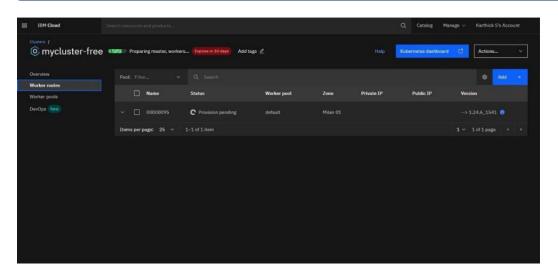


Question 3: Create a IBM container registry and deploy helloworld app.

```
(base) PS C:\Users\MCS> <mark>docker</mark> tag hello-world us.icr.io/hi123/hello-world:hello-world
(base) PS C:\Users\MCS> docker push us.icr.io/hi123/hello-world:hello-world
The push refers to repository [us.icr.io/hi123/hello-world]
e07ee1baac5f: Pushed
hello-world: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
(base) PS C:\Users\MCS>
(base) PS C:\Users\MCS> ibmcloud cr image-list
Listing images...
                               Tag
hello-world
Repository
                                              Digest
                                                              Namespace
                                                                          Created
                                                                                                  Security status
                                              f54a58bc1aac
                                                                          1 year ago
                                                                                        2.5 kB
(base) PS C:\Users\MCS>
```

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.

(base) PS C:\Users\MCS\desktop> kubectl run deployment --image=us.icr.io/hi123/hello-world:1
pod/deployment created



| NAME service/hello-world service/kubernetes | | CLUSTER-IP 172.21.109.54 172.21.0.1 | EXTERNAL-IP <none> <none></none></none> | PORT(S) 80:30081/TCP 443/TCP | AGE 6m37s 6m54s |
|---|--|---|---|------------------------------------|-----------------------|
| (base) PS C:\Users\MCS\desktop> | | | | | |