

ASSIGNMENT-4

Question 1:

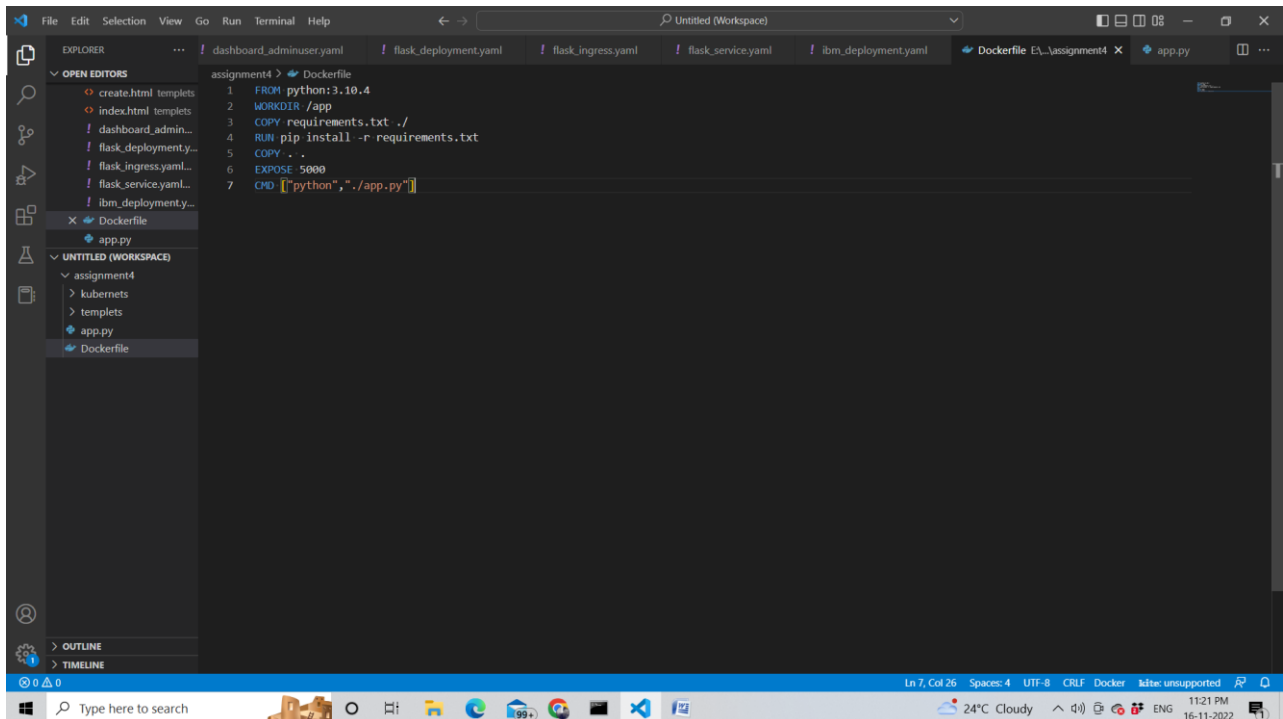
Pull an Image from docker hub and run it in docker playground.

```
PS C:\Windows\system32> 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
PS C:\Windows\system32>
```

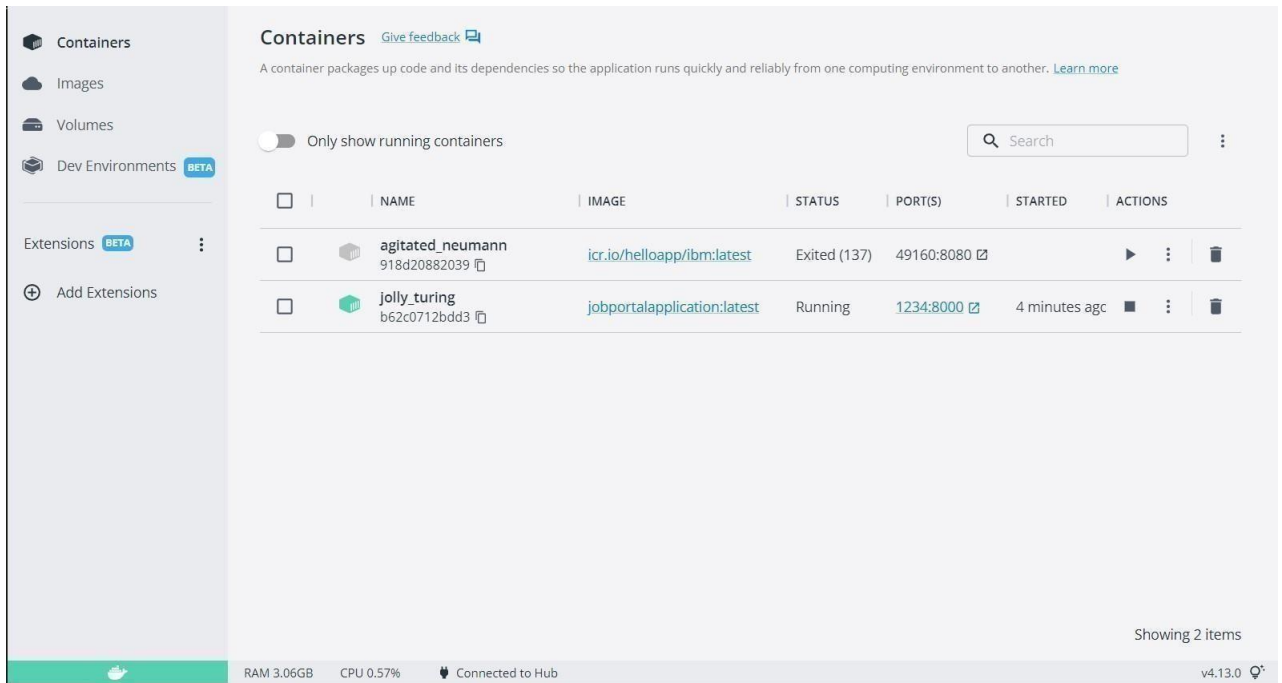
Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application

DOCKER FILE:



DEPLOYMENT OF JOBPORTAL APPLICATION:

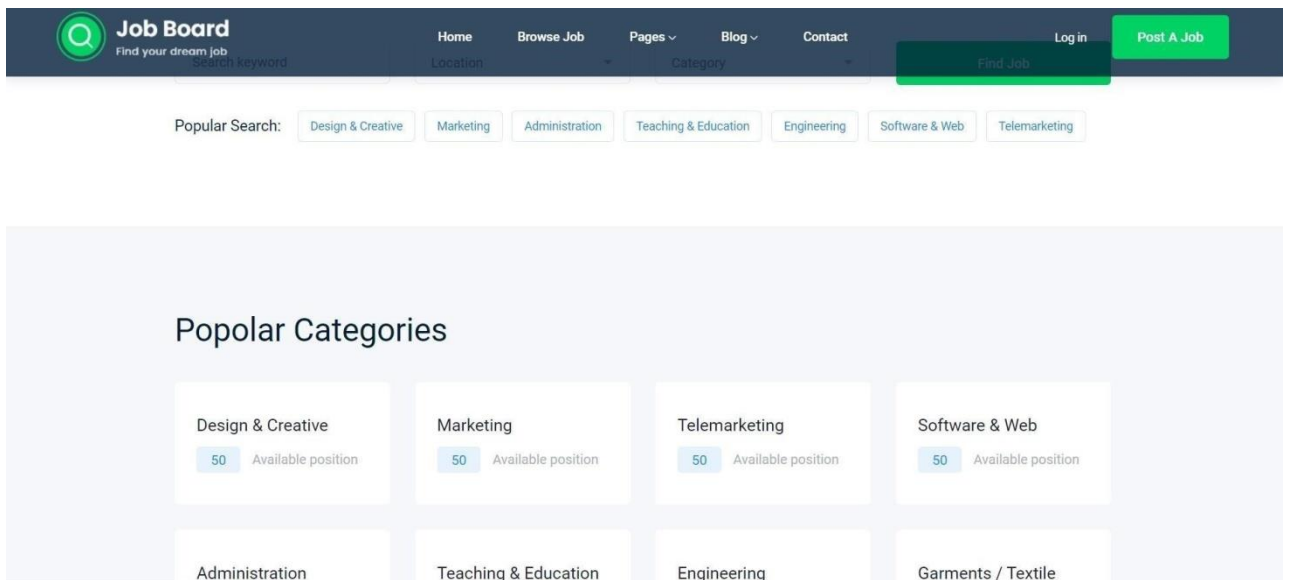


The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Extensions (marked BETA), and Add Extensions. The main area is titled 'Containers' and includes a toggle for 'Only show running containers' and a search bar. Below this is a table of containers:

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	agitated_neumann 918d20882039	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		
<input type="checkbox"/>	jolly_turing b62c0712bdd3	jobportalapplication:latest	Running	1234:8000	4 minutes ago	

At the bottom right of the container list, it says 'Showing 2 items'. The bottom status bar shows system metrics: RAM 3.06GB, CPU 0.57%, Connected to Hub, and version v4.13.0.

OUTPUT:



The screenshot displays the 'Job Board' application interface. The top navigation bar includes links for Home, Browse Job, Pages, Blog, and Contact, along with a 'Log in' link and a green 'Post A Job' button. Below the navigation bar is a search section with a 'Find Job' button. A 'Popular Search:' section lists various job categories: Design & Creative, Marketing, Administration, Teaching & Education, Engineering, Software & Web, and Telemarketing. The main content area is titled 'Popular Categories' and features a grid of category cards. Each card displays the category name, a blue badge with the number '50', and the text 'Available position'. The categories shown are Design & Creative, Marketing, Telemarketing, Software & Web, Administration, Teaching & Education, Engineering, and Garments / Textile.

Question 3:

Create an IBM container registry and deploy helloworld app or Job portal app.

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in node port.

