ASSIGNMENT 4

TEAM ID	PNT2022TMID43019
PROJECT NAME	Nutrition Assistant Application
NAME	**B**irundha

Question 1:

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

Question 2:

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

DOCKERFILE:

```
1   FROM python:3.8-buster
2
3   WORKDIR /app
4
5   COPY requirements.txt /app/
6
7   RUN pip install -r requirements.txt
8
9   COPY . /app/
10
11  RUN cp .env.dev.sample .env
12
13  EXPOSE 8000
14
15  RUN chmod +x entrypoint.sh
16
17  CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:

Containers Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
	agitated_neumann 918d20882039	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080 ☑		▶ ⋮ 🗑
	jolly_turing b62c0712bdd3	jobportalapplication:latest	Running	1234:8000 ☑	4 minutes ago	■ ⋮ 🗑

Showing 2 items

RAM 3.06GB   CPU 0.57%   Connected to Hub   v4.13.0

OUTPUT:

Question 3:

Create a IBM container registry and deploy helloworld app or jobportapp.
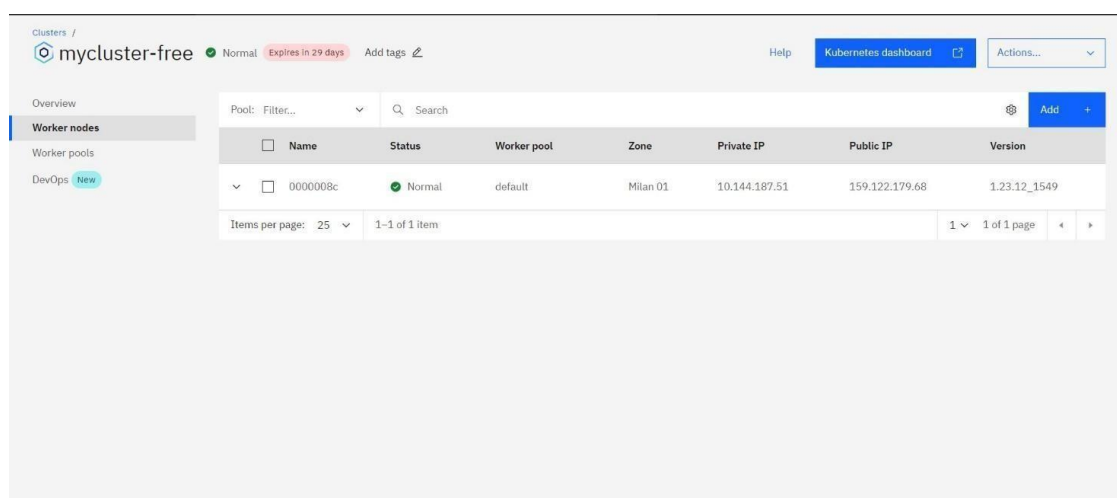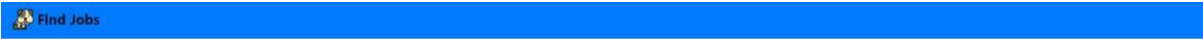
IBM CONTAINER REGISTRY DEPLOYMENT:
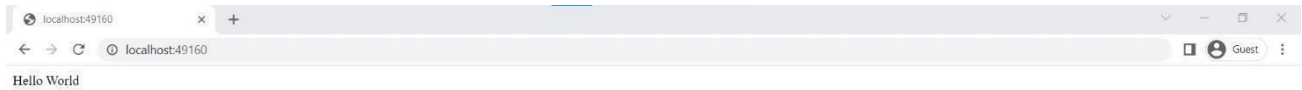
OUTPUT:

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.

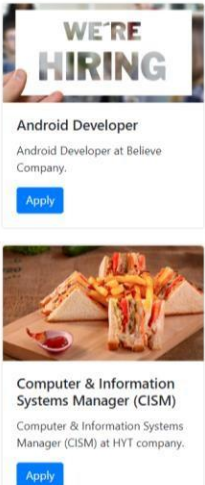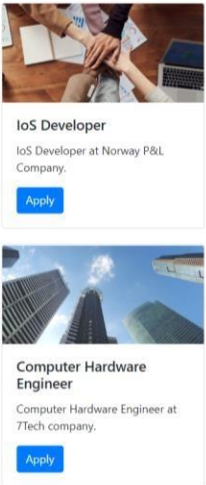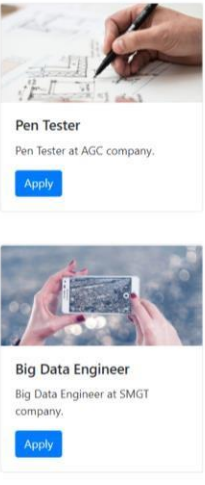CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODEPORT: