Assignment - 4

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1. Pull an Image from docker hub and run it in docker playground.
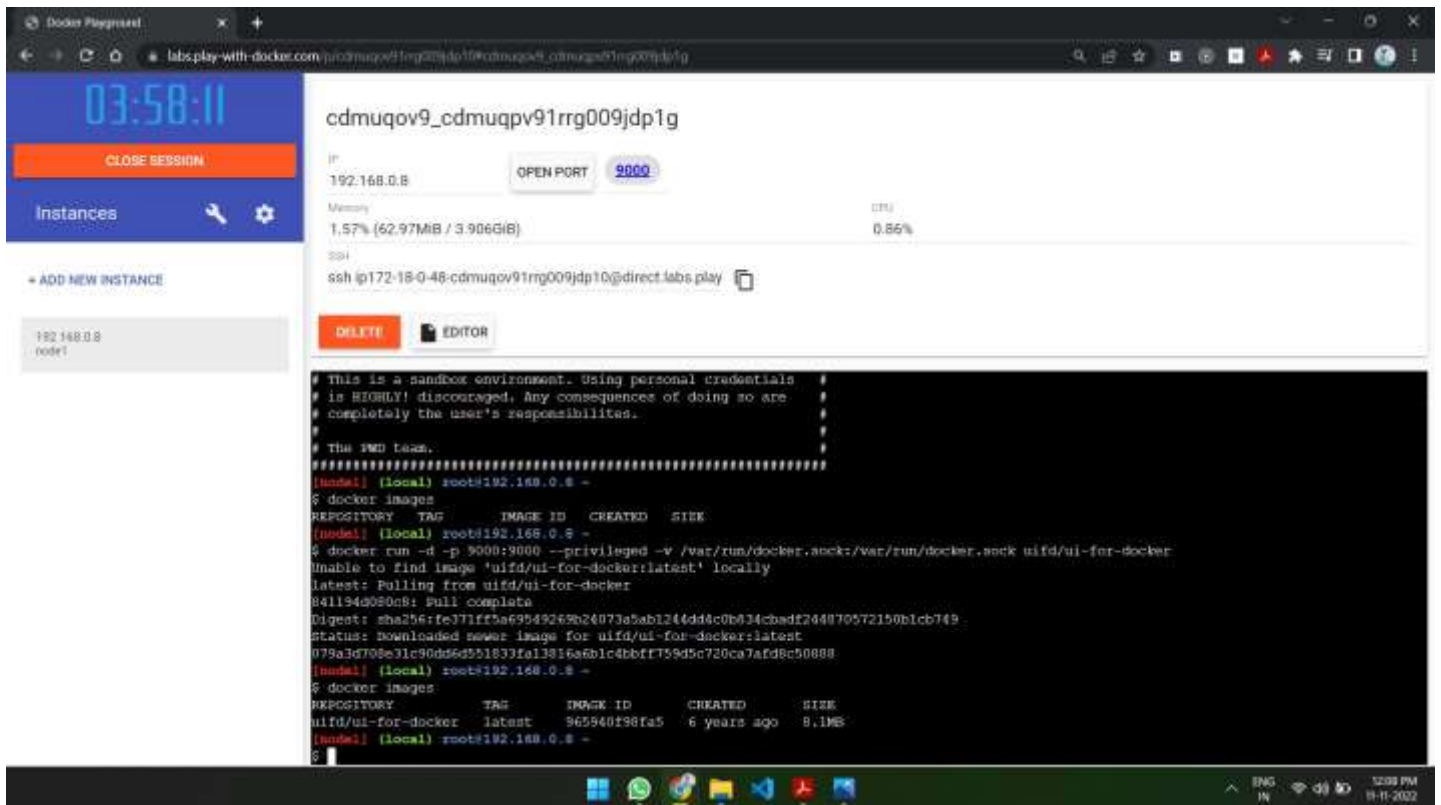
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

CODE

```
FROM ubuntu/apache2

FROM python

COPY ./requirements.txt /flaskApp/requirements.txt

WORKDIR /flaskApp

RUN pip install -r requirements.txt

COPY . /flaskApp

ENTRYPOINT [ "python" ]

CMD ["app.py" ]
```
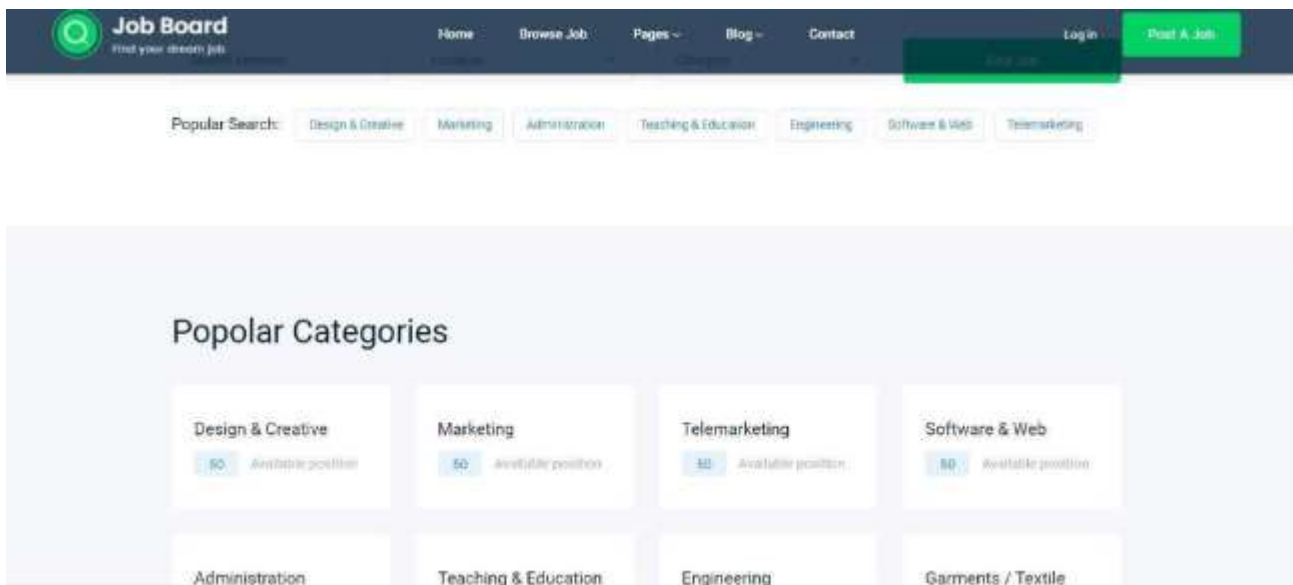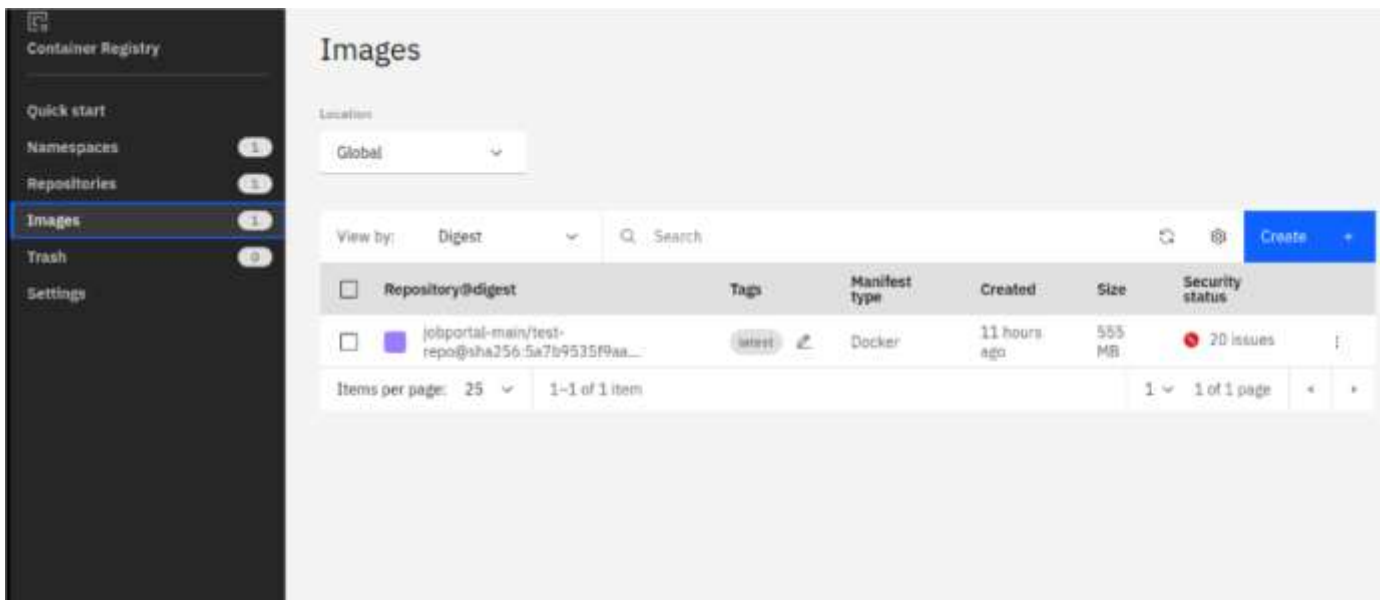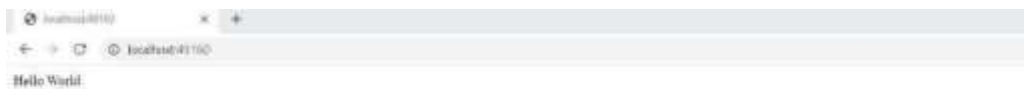
3.Create a IBM container registry and deploy hello world app or job portal app.

OUTPUT: "HELLO
WORLD"

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.

CODE:

```
apiVersion: v1 kind:
Service metadata:
name: job-portal-app
spec: selector: app:
job-portal-app ports:
- port: 5000 type:
NodePort
---
apiVersion: apps/v1 kind:
Deployment metadata:
name: job-portal-app labels:
app:  job-portal-app   spec:
selector: matchLabels: app:
job-portal-app
replicas: 1
template:
metadata: labels: app:
job-portal-app
spec: containers:
- name: job-portal-app image: image_name ports:
- containerPort: 5000 env:
- name:
  DISABLE_WEB_APPvalue: "false"
```