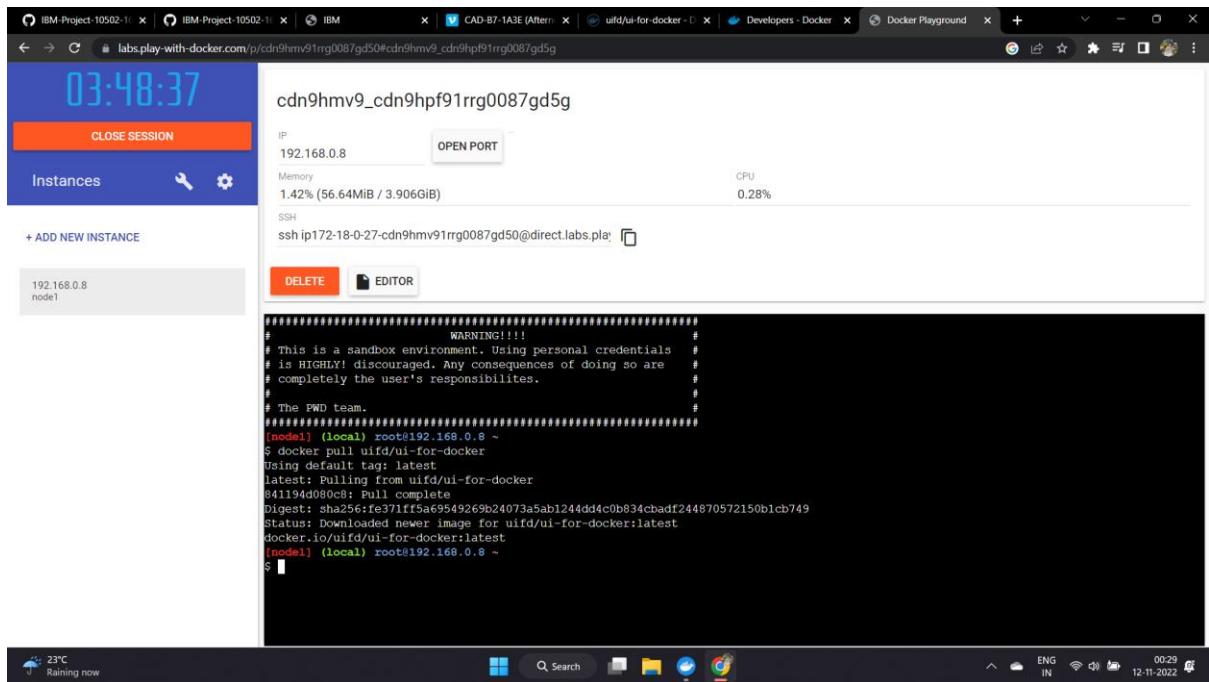


ASSIGNMENT 4

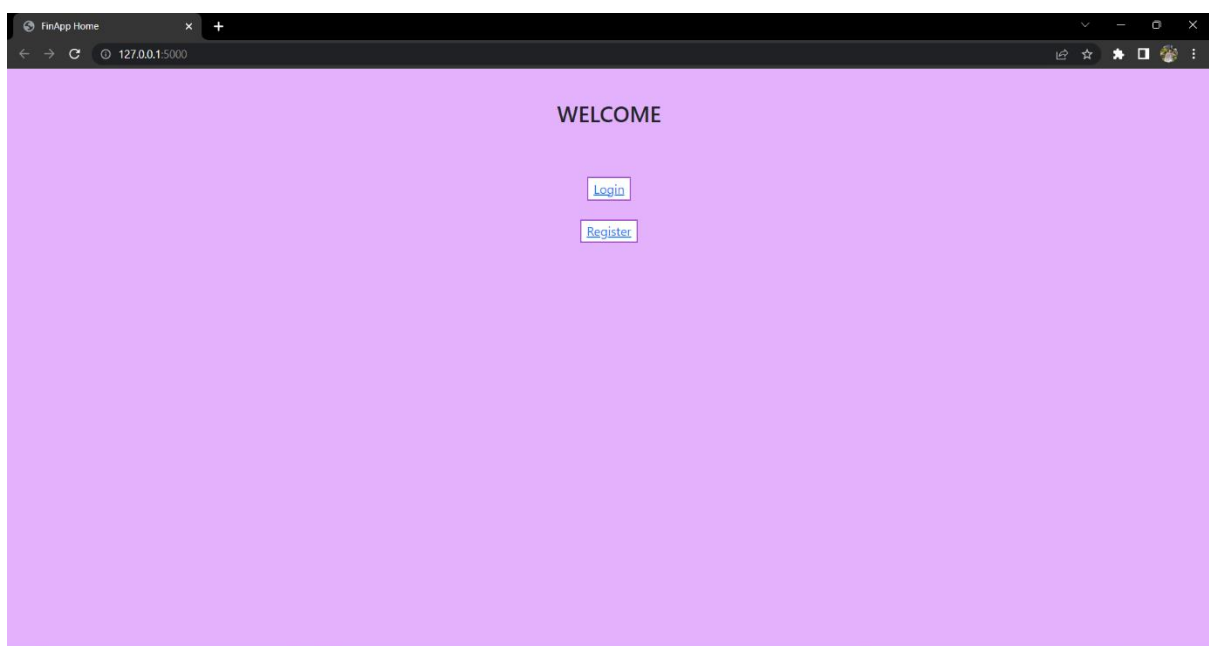
KUBERNETES/DOCKER

Name: Shanmathi M

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.



Dockerfile:

FROM python:3.6

WORKDIR /app

ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

RUN python3 -m pip install ibm_db

EXPOSE 5000

CMD ["python","app.py"]

```
Command Prompt
C:\Users\shann\Desktop\ibm\ibmproj>docker build -t ibm .
[+] Building 305.2s (12/12) FINISHED
=> [internal] load build definition from Dockerfile
=> == transferring dockerfile: 239B
=> [internal] load .dockerignore
=> == transferring context: 2B
=> [auth] library/python:pull token for registry-1.docker.io
=> [1/6] FROM docker.io/library/python:3.6@sha256:f852afaf88c25f8d22354d547d892591867aa4826a7fa9a6819df9f388af6fc
=> == resolve docker.io/library/python:3.6@sha256:f852afaf88c25f8d22354d547d892591867aa4826a7fa9a6819df9f388af6fc 174.7s
=> == sha256:96d29c75b5b92b97d8c97a54f68f3e021996a396c714b53a32a6b7d19231fed 5.15MB / 5.15MB 4.3s
=> == sha256:cd807e361722490eac3f35823ed21baad3d61d6d9cc5a9a1b3470c4ad55 19.87MB / 19.87MB 16.6s
=> == sha256:f852afaf88c25f8d22354d547d892591867aa4826a7fa9a6819df9f388af6fc 1.86MB / 1.86MB 0.8s
=> == sha256:d897a997a8acc779df5ac31872359c2de518f82214c0408e926103b376d1be8d 2.22MB / 2.22MB 0.8s
=> == sha256:54268638d87cbe3ad24c6e21fc889abb68486a27634c0892886ff71f3f44b194 9.27MB / 9.27MB 0.8s
=> == sha256:8a20546d41c8b8389201d21a71a9d1b78668c1b9b074f32689e0b7f4a61a3 54.07MB / 54.07MB 65.3s
=> == sha256:6490e4811622b31c82fcca222ca463937f0886f5650a93ed6f1c81aade71f793 54.57MB / 54.57MB 189.6s
=> == sha256:6f9f79896d4d3fe0172f594faba85e0b6a8a801a8fef9d112fc7e4d3c78f7 196.51MB / 196.51MB 168.8s
=> == extracting sha256:8a20546d41c8b8389201d21a71a9d1b78668c1b9b074f32689e0b7f4a61a3 1.5s
=> == sha256:5e3b1211efc56598e78bd482983998c164de2a37285e86a62dad821134dc743 6.20MB / 6.20MB 74.5s
=> == extracting sha256:8a20546d41c8b8389201d21a71a9d1b78668c1b9b074f32689e0b7f4a61a3 0.2s
=> == extracting sha256:cd807e361722490eac3f35823ed21baad3d61d6d9cc5a9a1b3470c4ad55 0.2s
=> == sha256:9f40f4dc6334f2e6efad7e241bf5e7459c48ed185c5478676f41c1244bd98752 14.21MB / 14.21MB 94.4s
=> == sha256:4044f2844bac0432ca522cb9f294b1c91fca68806fee48e0b243b2f31ba07 235B / 235B 95.8s
=> == sha256:cf402be2b53b988edf4940c1d9136e53843cc5f50594a56848a6169a1a3f 2.21MB / 2.21MB 99.3s
=> == extracting sha256:6490e4811622b31c82fcca222ca463937f0886f5650a93ed6f1c81aade71f793 1.7s
=> == extracting sha256:6f9f79896d4d3fe0172f594faba85e0b6a8a801a8fef9d112fc7e4d3c78f7 4.6s
=> == extracting sha256:5e3b1211efc56598e78bd482983998c164de2a37285e86a62dad821134dc743 0.2s
=> == extracting sha256:9f40f4dc6334f2e6efad7e241bf5e7459c48ed185c5478676f41c1244bd98752 0.4s
=> == extracting sha256:4044f2844bac0432ca522cb9f294b1c91fca68806fee48e0b243b2f31ba07 0.4s
=> == extracting sha256:cf402be2b53b988edf4940c1d9136e53843cc5f50594a56848a6169a1a3f 0.2s
=> [internal] load build context
=> == transferring context: 127.35MB
=> [2/6] WORKDIR /app
=> [3/6] ADD . /app
=> [4/6] COPY requirements.txt /app
=> [5/6] RUN python3 -m pip install -r requirements.txt 121.9s
=> [6/6] RUN python3 -m pip install ibm_db 1.1s
=> == exporting layers 1.6s
=> == writing image sha256:66a2f2d79c1cf4569e979a85de4be77086f1a3c2c98bd87bc3b5f1f6ac883b3 0.9s
=> == naming to docker.io/library/ibm 0.8s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\shann\Desktop\ibm\ibmproj>
```

3.Create an IBM container registry and develop helloworld app or jobportal app

```
Command Prompt
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\shana>docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\shana>docker tag myapp shanmathi04

C:\Users\shana>/'/' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\shana>docker tag myapp shanmathi04/myapp

C:\Users\shana>docker push shanmathi04/myapp
Using default tag: latest
The push refers to repository [docker.io/shanmathi04/myapp]
c6b9cb1934cc: Pushed
586fda595180: Pushed
4afada244bd5: Pushed
9ac5f3bf63b4: Pushed
61f889146ff5: Pushed
aa4c888c19f6: Mounted from library/python
8ba9f698e8ba: Mounted from library/python
3e687d59ef9f: Mounted from library/python
1a18e7a1fcc2: Mounted from library/python
c3a8d593ed24: Mounted from library/python
26a584e63be4: Mounted from library/python
8bf42db8de72: Mounted from library/python
31892cc314cb: Mounted from library/python
11926081f93b: Mounted from library/python
latest: digest: sha256:5b8931ed3c6a977a46e652cd78e1c418e182b6cfff9b9ecdce84ce18ba7d7e862 size: 3263

C:\Users\shana>
```

