Assignment-4

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Batch No	B9 - 3A5E
Project Name	NEWS TRACKER APPLICATION
Team ID	PNT2022TMID31792

Question-1:

pull an image from docker hub and run it in docker

playground.pullan image form dockerhub

```
### Cemmand Prompt

**Ricrosoft Windows [Version 10.0.19044.1766]
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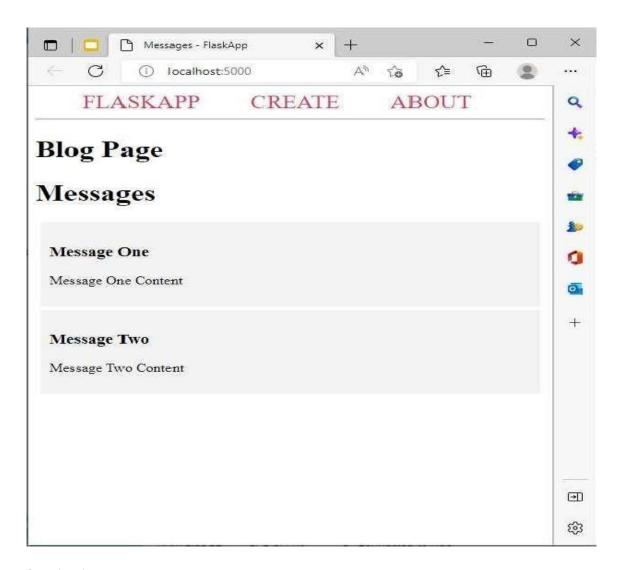
**C:\Users\ADMIN:docker push shabariganesan/docker_with_flask_form
Using default tag: latest
The push refers to repository [docker.io/shabariganesan/docker_with_flask_form]
An Image does not exist locally with the tag: shabariganesan/docker_with_flask_form

**C:\Users\ADMIN:docker_pull shabariganesan/docker_with_flask_form
Using default tag: latest
Latest: Pulling from shabariganesan/docker_with_flask_form
187:565cc8df: Pull complete
### 187:586c85: Pull complete
### 2004191556:
### 187:586c85: Pull complete
### 2004191556: Pull complete
### 200419156: Pull complete
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### 200419156: Pull complete
### 200419156: Pull complete
### 20041916: Pull complete
### 2004191
```

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Question-2:

Create a docker file for the job portal application and deployit indocker application.

Creating a docker file for the job portal application

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FROM python: 3.10.6

WORKDIR /app

COPY requirements.txt ./

RUN pip install -r requirements.txt

COPY .

EXPOSE 5000

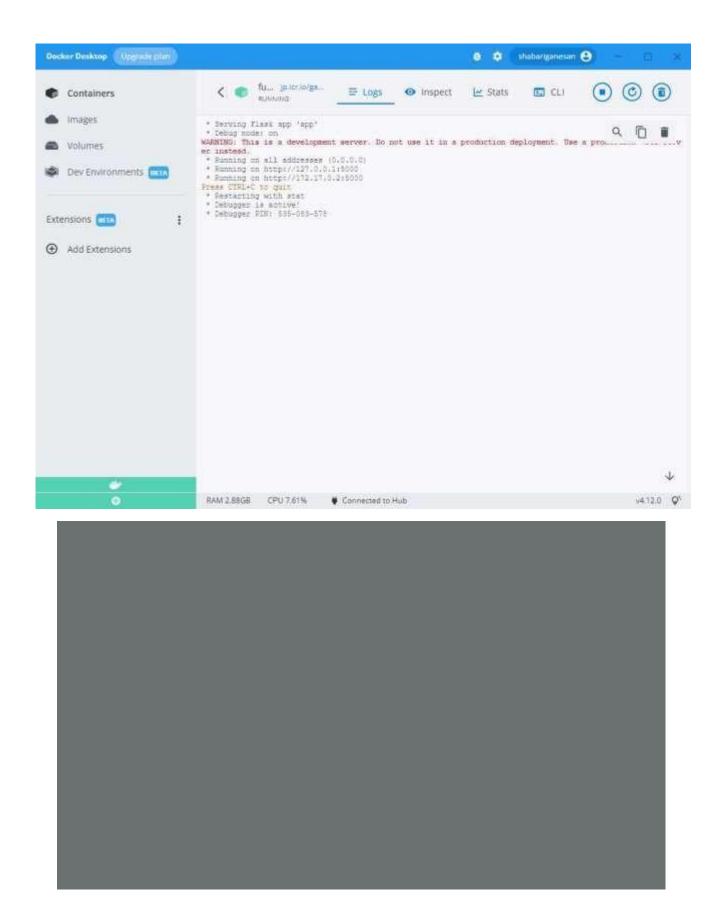
CMD ["python", "./app.py"]
```

deployinindokcerapplication

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running indocker desktop 1

createa ibm container registry

deployhelloworldorjobportal

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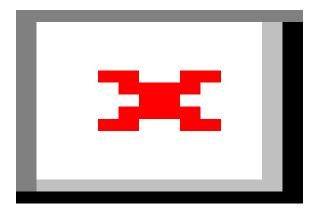
district 812061 Sets ying in 1 second

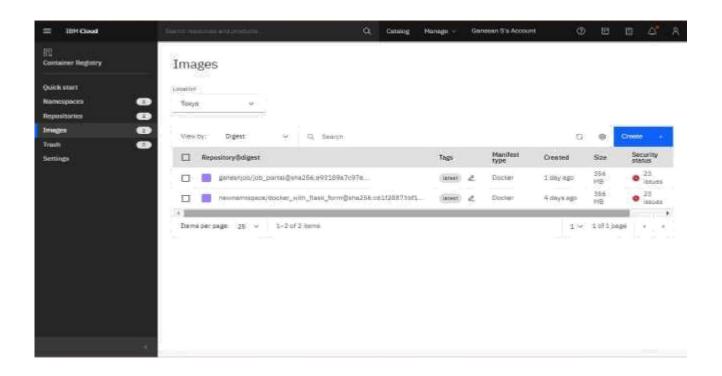
filed to 1 sets ying in 1 second

district 812061 Sets ying in 1 second

likely 1800828: layer already exists

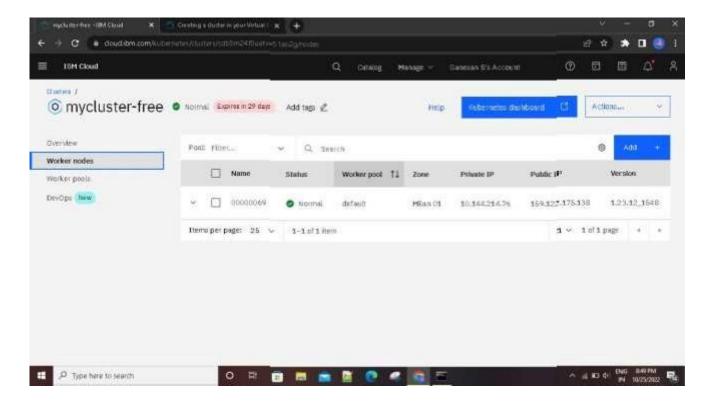
district 1 seps al
```





Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also exposethesameapp to run in noteport

Creatingakubernetesclusterinibmcloud



deploy helloworld image or job portalimage and also expose the same apptor uninnote portalization of the contraction of the c

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Deployment

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aggrander. This is a development surver. Do not use it in a production deployment. Use a graduation MSGI server instead. Njon
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whing on http://127.0.0.15800
ming on http://127.0.0.20.115000
ming on http://127.0.0.20.115000
ming on through its state
august is active!

suggest PIN: 316-407-149

Services

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he Service "flask service" is invalid: metadata.name: Invalid value: "flask service"; a DNS-1835 label must consist of lower case alphanumenic characters or '.'. start
with an alphabetic character, and end with an alphanumenic character (e.g. "my-name", or "abc-123", regex used for validation is '[=-2]([-a-zH-9]*[a-zH-9])')' :\Windows\system32>kuhecti expose deployment flask-app --type-NodePort --name-Flask service
he Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-1035 label must consist of lower case alphanumeric characters or "with an alphabetic character, and end with an alphanumeric character (e.g. "my-name", or "abc-123", regex used for validation is "[a-z]([-a-z0-9]*[a-z0-9])?") \Mindows\systemIZ>kubect1 expose deployment flask-app -type-NodePort --name-flask-service ror from server (AlreadyLxists): services "flask-service" already exists \Mindows\system32> \Mindows\system32>kubect1 -n kubernetws-dashboard get depploy \Mindows\system12\kubert1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubert1 -n kubernetez-dashboard get deploy resources found in kubernetes-dashboard namespace. :\Windows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8001 \Mindows\system32\kubectl -n kubernetes-dashboard get deplou \Mindows\system32>kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32\kubectl -n kubernetes-dashboard get pods o resources found in kubernetes-dashboard namespace. \Mindows\system32\kubect1 expose deployment flask-app --type-NodeFort --name-flask-service row from server (AlreadyExists): services "flask-service" already exists :\Mindows\system32>kubectl get ing
AMI CLASS HOSIS ADDRESS PORTS AGE
Task-app-ingress cnone> * 80 278 :\Mindows\system32>kubect1 get avc AME TYPE CLUSTER-IP EXTERNAL-ID