EXERCISES ON KUBERNETES

Create a simple deployment of the given app with name of your choice and 3 replicas of pods. Check the status of pod by sending request. App should be accessed from outside the cluster.

dep.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: usn-nginx-deployment
  namespace: usn
  labels:
    app: usn-nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: usn-nginx
  template:
    metadata:
      labels:
        app: usn-nginx
    spec:
      containers:
      - name: nginx
        image: 172.1.14.168:5001/nginx
        ports:
        - containerPort: 80
```

kubectl create namespace 1ms99cs001

kubectl apply -f dep.yaml

kubectl expose deployment usn-nginx-deployment --type=NodePort --name=usn-nginx-service --namespace=1ms99cs001

kubectl get pods --namespace=1ms99cs001

kubectl get svc --namespace=1ms99cs001

Demonstrate the updation of image in live container in a pod using command line.

kubectl set image deployment/usn-nginx-deployment nginx=newImageusn --namespace=1ms99cs001

kubectl describe deploy usn-nginx-deployment --namespace=1ms99cs001 | grep newImageusn