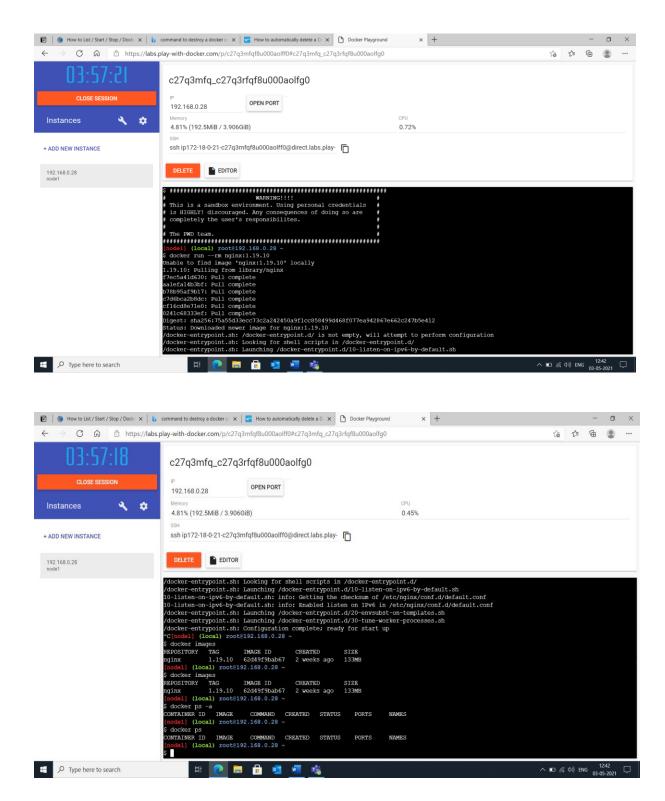
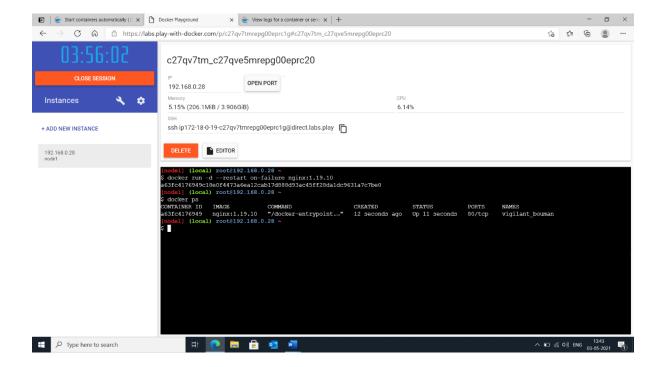
DOCKER – EXERCISES

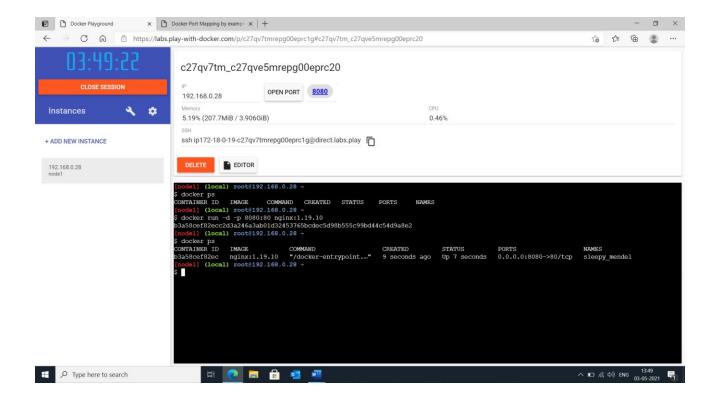
- 1) Spin up a temporary container with image nginx:1.19.10 and execute inside it, such that the container should be destroyed, once you exit from the container
 - docker run -rm nginx:1.19.10
 - docker ps -a



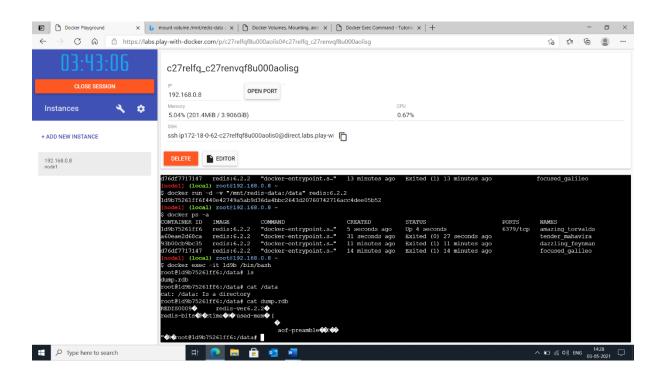
- 2) Spin up a container with image nginx:1.19.10 such that it should restart automatically if any fatal errors are encountered
 - docker run -d -restart on-failure nginx:1.19.10
 - docker ps



- 3) Spin up a container with image nginx:1.19.10 such that port 80 of the container can be connected from port 8080 of the host
 - docker run -d -p 8080:80 nginx:1.19.10



- 4) Spin up a container with image redis:6.2.2 and mount volume /mnt/redis-data of host to the /data of the container
 - docker run -d -v "/mnt/redis-data: /data " redis:6.2.2
 - docker exec -it #container_id /bin/bash



5) Create a dockerfile with base image centos:7, and build an image with any sample application file

vi app.py

```
from flask import Flask
app = Flask(_name_)
@app.route('/')
def disp():
```

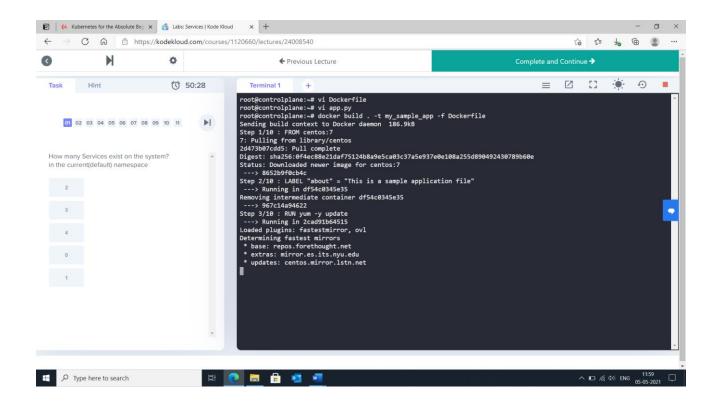
return "This is Sakthi Sri's sample application"

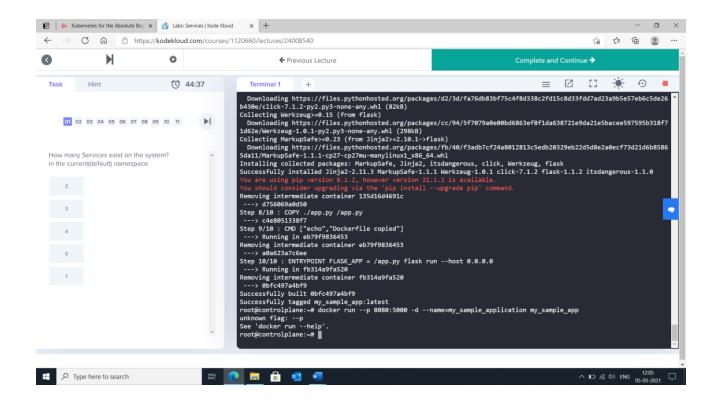
vi Dockerfile

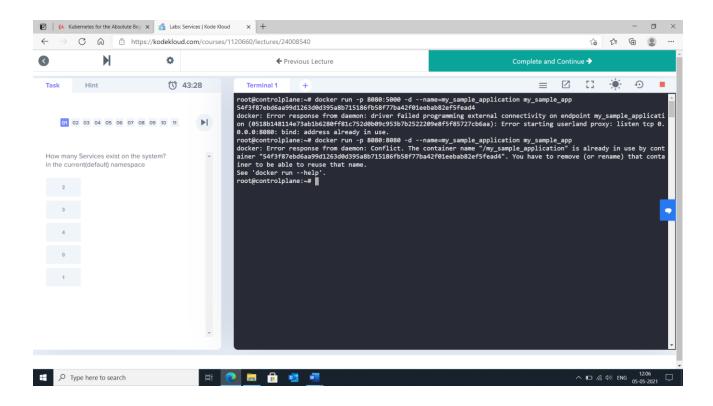
Dockerfile starts here

- ✓ FROM centos:7
- ✓ LABEL "about" = "This is a sample application file"
- ✓ RUN yum -y update
- ✓ RUN yum -y install python

- ✓ RUN yum -y install epel-release && yum clean all
- ✓ RUN yum -y install python-pip
- ✓ RUN pip install flask
- ✓ COPY ./app.py /app.py
- ✓ CMD ["echo", "Dockerfile copied"]
- ✓ ENTRYPOINT FLASK_APP = /app.py flask run -host 0.0.0.0
 # Dockerfile ends here
- docker build .-t my_sample_app -f Dockerfile
- docker images
- docker run -p 8080:5000 -d -name=my_sample_application my_sample_app
- docker ps







- 6) Create a bridge network called test-app and spin up nginx and redis containers in that network
 - docker network Is
 - docker network create -d bridge my-bridge
 - docker images
 - docker network inspect my-bridge
 - docker network Is
 - docker run -d nginx
 - docker run -d redis
 - docker ps
 - docker images
 - docker network connect my-bridge #container_id_of_nginx
 - docker network connect my-bridge #container_id_of_redis
 - docker network inspect my-bridge

