EXPERIMENT 6

AIM: Working with Docker Compose File to Control Multiple Containers

Steps to Complete:

Creating compose files

Create a directory named nginx in your root.

mkdir nginx

Switch to that directory and create a file named docker-compose.yaml

cd nginx

vi docker-compose.yml

Use docker-compose version 2 to create docker-compose.yaml file. Create a service named "databases". Use image named "mysql"

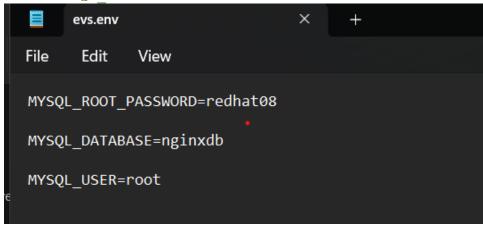
Map container 3306 port to host machine 3306 port.

Add environment variables named "MYSQL_ROOT_PASSWORD", "MYSQL_DATABASE", "MYSQL_USER" and "MYSQL_PASSWORD" along with corresponding values for all.

cat evs.env

MYSQL_ROOT_PASSWORD=redhat08
MYSQL_DATABASE=nginxdb

MYSQL USER=root



Add another service named "web" Use image "nginx"

cat docker-compose.yml

```
version: '3'
services:
  databases:
    image: mysql
    ports:
        - "3307:3306"
    env_file:
        - evs.env
  web:
    image: nginx
    ports:
        - "80:80"
    depends_on:
        - databases
```

```
docker-compose.yml U •
C: > Users > hp > Desktop > ACO-LAB-2021-25-SUBMISSION > R21422
       version: '3'
   2
   3
        services:
   4
   5
          databases:
   6
   7
            image: mysql
   8
   9
            ports:
  10
               - "3307:3306"
  11
  12
            env_file:
  13
  14
  15
               - evs.env
  16
  17
          web:
  18
  19
            image: nginx
  20
            ports:
  21
  22
  23
               - "80:80"
  24
  25
            depends_on:
  26
  27
               - databases
```

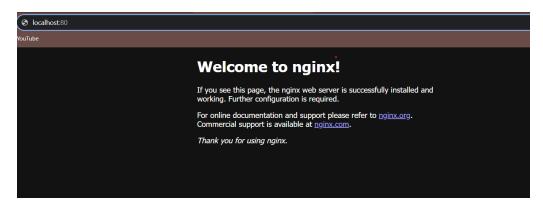
Running images using docker-compose

Save docker-compose.yaml file and do docker-compose up.

```
docker-compose up -d
```

Verify nginx service is up and is accessible on machine.

curl localhost:80



Stop and remove your docker container using docker-compose.

docker-compose down

```
PS C:\Users\hp\Desktop\ACO-LAB-2021-25-SUBMISSION\R2142211343\exp6\nginx> docker-compose down

[+] Running 3/3

\( \triangle \text{Container nginx-web-1} \) Removed

\( \triangle \text{Container nginx-databases-1} \) Removed

\( \triangle \text{Network nginx_default} \) Removed

\( \triangle \text{Removed} \)

0.3s
```