rajashree - 8,9,10 - cnf

Step 1: Downland the required program 8 folder

Program - 8 and 10

```
opent the folder in terminal
create Dockerfile
FROM openjdk:17
COPY *.jar app.jar
CMD ["java","-jar","app.jar"]
docker build -t my_prg8:latest .
docker run -itp 8080:8080 my_prg8:latest
then open postman
POST: http://localhost:8080/person
{
"name": "zaiba",
"address": "bangalore-560076"
}
GET: http://localhost:8080/person
"name": "zaiba",
"address": "bangalore-560076"
}
DELETE: http://localhost:8080/person?name=zaiba
create kuber.yml
version: "3.8"
services:
 db:
  image: mysql:latest
  environment:
   DATABASE PORT: 3306
   MYSQL DATABASE: db mca084
   MYSQL_ROOT_PASSWORD: mca084
```

```
MYSQL_USERNAME: mca084
   MYSQL PASSWORD: mca084
  networks:
   - default
 app:
  image: prg9:latest
  ports:
  - 8080:8080
  environment:
   SPRING_DATASOURCE_URL: jdbc:mysql://172.16.34.43:3306/db_mca084
   SPRING DATASOURCE DRIVER CLASS NAME: com.mysql.cj.jdbc.Driver
   SPRING_DATASOURCE_USERNAME: mca084
   SPRING_DATASOURCE_PASSWORD: mca084
  depends_on:
   - db
  networks:
   - default
well cross check with - application.properties of jar with archive manager \
```

spring.datasource.url = jdbc:mysql://localhost:3306/student spring.datasource.driverClassName = com.mysql.cj.jdbc.Driver spring.datasource.username = root spring.datasource.password = rvce spring.jpa.show-sql = true spring.jpa.hibernate.ddl-auto = update minikube start --driver=docker minikube delete(if cluster already existed) then if its deleted then again, minikube start --driver=docker eval \$(minikube docker-env) Again build image - docker build -t img 10:latest. (make chnages in kuber.yml) if kubectl not present install it - sudo snap install kubectl --classic kubectl apply -f kuber.yml minikube service myapp-service

then open postman

```
POST - http://192.168.49.2:31719/person
{
"name": "zaiba",
"address": "bangalore-560076"
}
GET - http://192.168.49.2:31719/person
DELETE - http://192.168.49.2:31719/person?name=zaiba
open another terminal and type - minikube dashboard
Program - 9
Step 1: Downlaod the required program 9 folder
then in the 9th program folder -
open the jar file, using open with Archive Manager, then BOOT-INF -> classes -> application.properties
spring.datasource.url = jdbc:mysql://localhost:3306/student
spring.datasource.driverClassName = com.mysql.cj.jdbc.Driver
spring.datasource.username = admin
spring.datasource.password = sql zaiba
spring.jpa.show-sql = true
spring.jpa.hibernate.ddl-auto = update
here change the url to jdbc:mysql://172.16.34.41:3306/db mca119, username and password to mca119
opent the folder in terminal
create Dockerfile
FROM openjdk:17
COPY *.jar app.jar
CMD ["java","-jar","app.jar"]
docker build -t my prg9:latest .
create docker-compose.yml
version: "3.8"
```

services:
db:
image: mysql:latest
environment:
DATABASE_PORT: 3306
MYSQL_ROOT_PASSWORD: root
MYSQL_DATABASE: student
MYSQL_USER: admin
MYSQL_PASSWORD: sql_zaiba
networks:
- default
app:
image: my_prg9z1:latest # Replace this with the image name you created
ports:
- "8080:8080"
environment:
SPRING_DATASOURCE_URL: jdbc:mysql://db:3306/student
SPRING_DATASOURCE_DRIVER_CLASS_NAME: com.mysql.cj.jdbc.Driver
SPRING_DATASOURCE_USERNAME: admin SPRING DATASOURCE PASSWORD: sql zaiba
depends on:
- db
networks:
- default
a state.
here too make necessary chnages like username, apssword, link as per your changes made in
application.properties
docker-compose up
docker compose up -d(in background)
docker compose up -u(iii background)
docker-compose down
·
docker-compose up