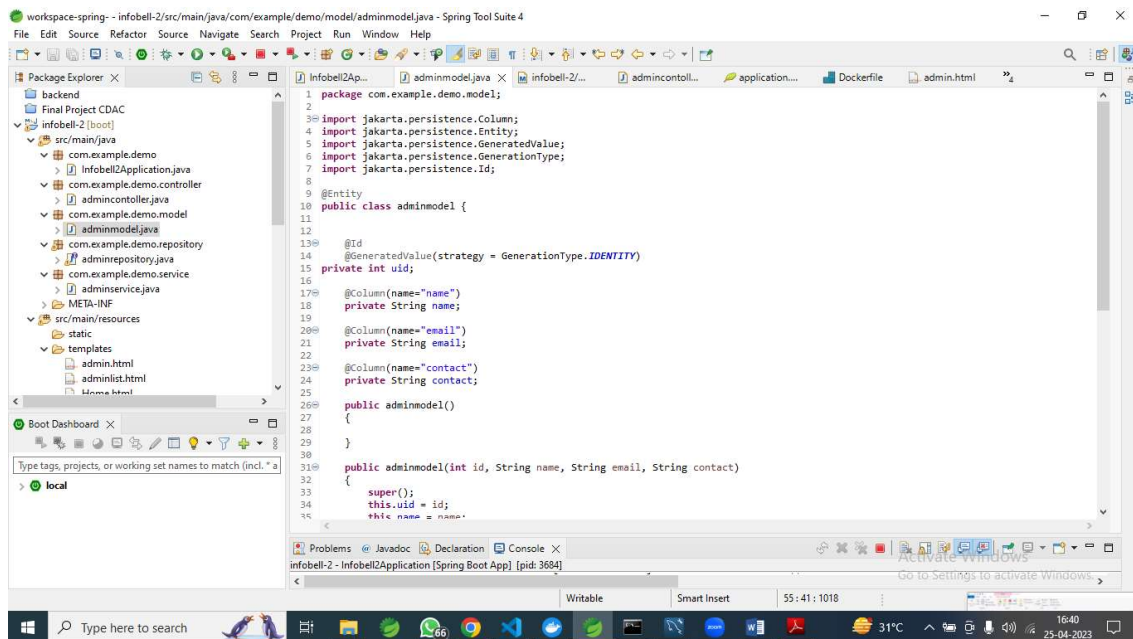
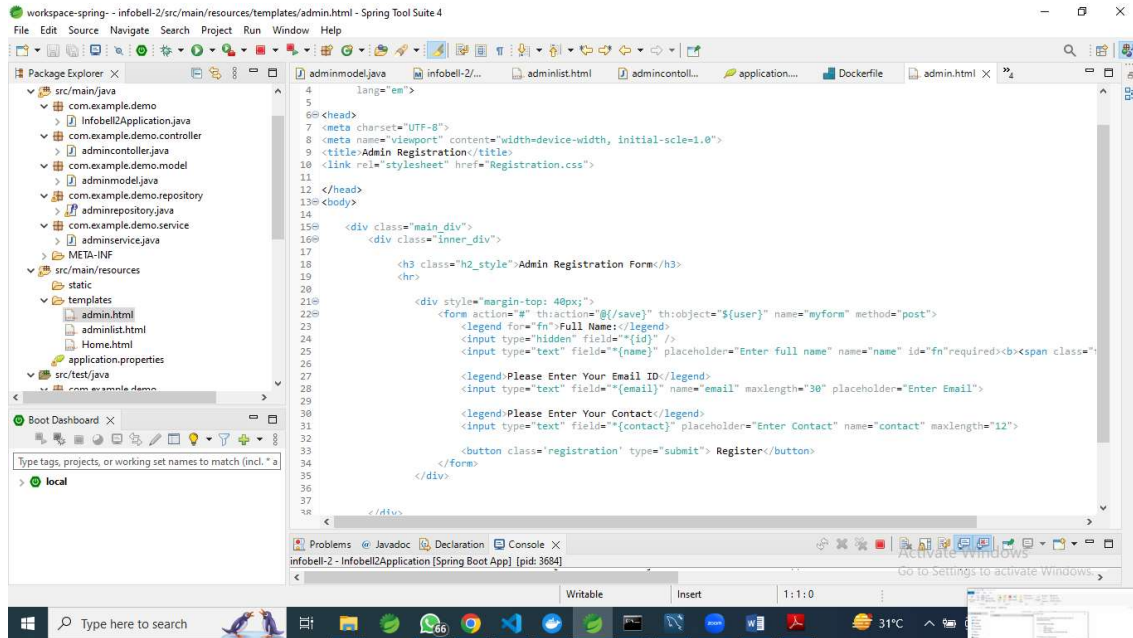


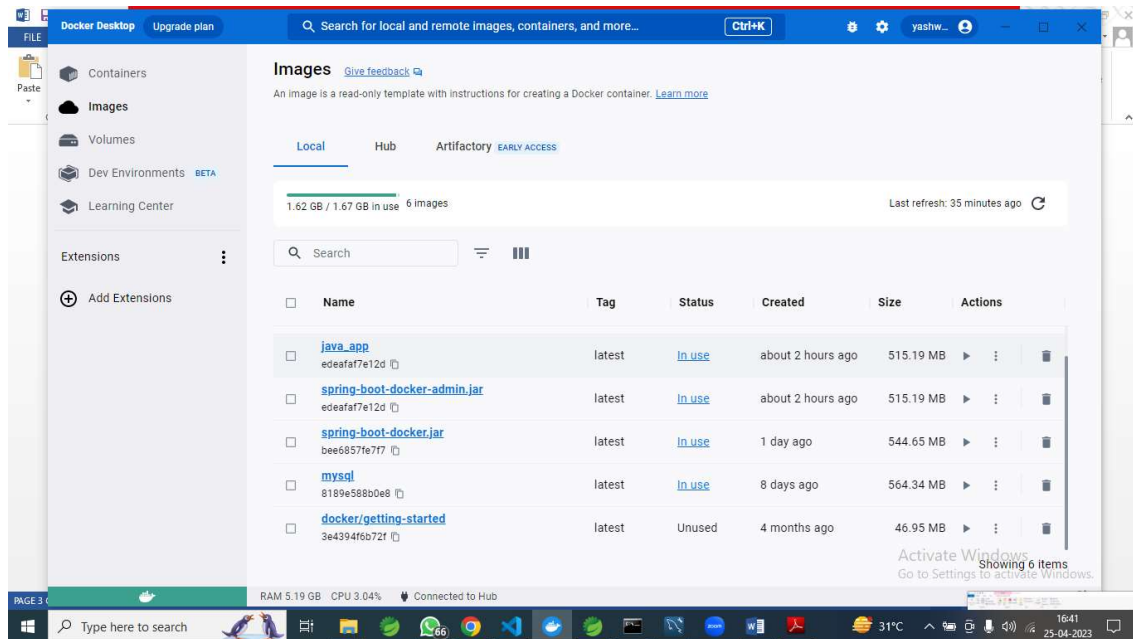
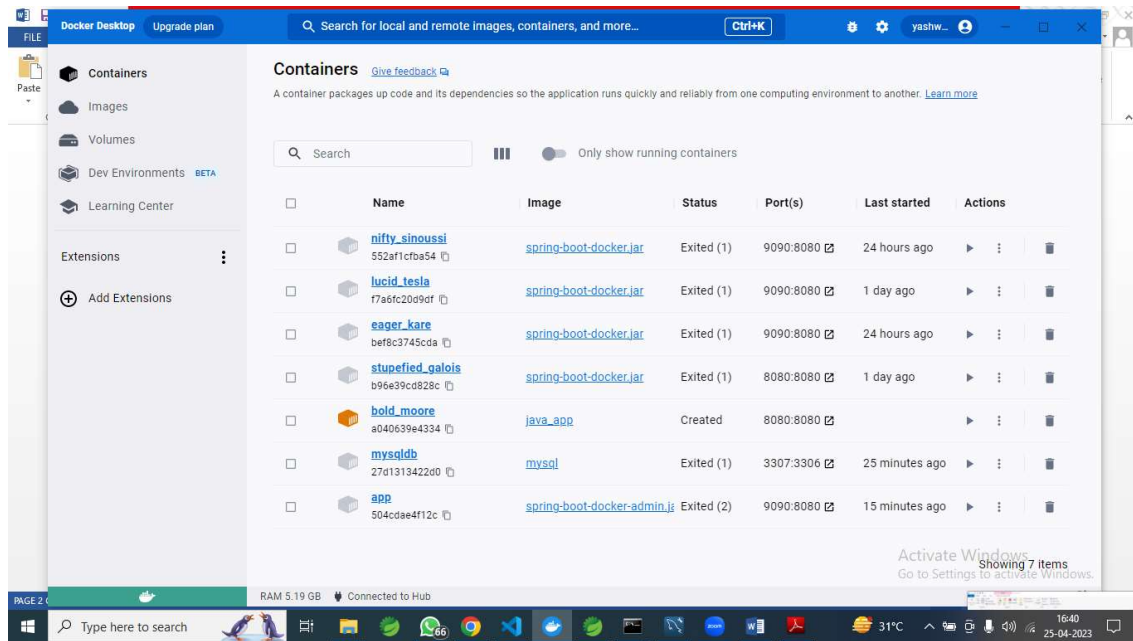
Assignment: 4  
Name :Yashwant Singh  
Topic : Docker Project  
Date : 25 April 2023

The screenshot displays the Spring Tool Suite 4 IDE interface. The top menu bar includes File, Edit, Source, Navigate, Search, Project, Run, Window, and Help. The Package Explorer on the left shows the project structure, including JRE System Library, Maven Dependencies, target/generated-sources/annotations, target/generated-test-sources/test-annotations, src/main, test, target/generated-sources, generated-test-sources, maven-archiver, maven-status, surefire-reports, spring-boot-docker-admin.jar, spring-boot-docker-admin.jar.original, Dockerfile, HELP.md, mvnw, mvnw.cmd, and pom.xml. The central editor shows the Dockerfile content:

```
1 FROM openjdk:17
2 ADD target/spring-boot-docker-admin.jar spring-boot-docker-admin.jar
3 EXPOSE 8080
4 ENTRYPOINT [ "java", "-jar", "spring-boot-docker-admin.jar" ]
```

The Console window at the bottom shows the application logs for 'infobell-2 - Infobell2Application [Spring Boot App] [pid: 3684]'. The logs indicate the application is starting successfully, with messages from HikariPool-1, HikariDataSource, LogHelper, org.hibernate.Version, SQL dialect, JtaPlatformInitiator, JpaEntityManagerFactoryBean, TomcatWebServer, and Infobell2Application. The application is running on port 8080 and has completed initialization in 3 ms.





```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2846]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Desktop\infobell->docker build -p java_app .
unknown shorthand flag: 'p' in -p
see 'docker build --help'.

C:\Users\Administrator\Desktop\infobell->docker build -t java_app .
[+] Building 2.0s (7/7) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 32B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:17 1.5s
=> [internal] load build context 0.0s
=> => transferring context: 85B 0.0s
=> [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb09562eb819128a9f85ae7fe00e2fb0eaf9f87662e7b3f38cb7 0.0s
=> CACHED [2/2] ADD target/spring-boot-docker-admin.jar spring-boot-docker-admin.jar 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:edeafaf7e12d0ee08dfe55d49e550097a41b3c40749fc54d96280cc884009649 0.0s
=> => naming to docker.io/library/java_app 0.0s

C:\Users\Administrator\Desktop\infobell->docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 221d39038d29 2 hours ago 515MB
java_app latest edeafaf7e12d 2 hours ago 515MB
spring-boot-docker-admin.jar latest edeafaf7e12d 2 hours ago 515MB
spring-boot-docker.jar latest bee6857fe7f7 24 hours ago 545MB
mysql latest 8189e588b0e8 7 days ago 564MB
docker/getting-started latest 3e4394f6b72f 4 months ago 47MB

C:\Users\Administrator\Desktop\infobell->docker run -p 8080:8080 java_app
docker: Error response from daemon: Ports are not available: exposing port TCP 0.0.0.0:8080 -> 0.0.0.0:8080: listen tcp 0.0.0.0:8080: bind: Only one usage of each socket address (protocol/network address/port) is normally permitted.

C:\Users\Administrator\Desktop\infobell->docker network ls
NETWORK ID NAME DRIVER SCOPE
c4faa8a4c4e1 bridge bridge local
7da146f21ed4 host host local
06cad5a2ad30 none null local

C:\Users\Administrator\Desktop\infobell->docker network create spring-net
834009881a306ea96809f31361831650ac7328a87be61904b4401b26638c27bd

Activate Windows
Go to Settings to activate Windows.
```

```
Administrator: C:\Windows\System32\cmd.exe
spring-boot-docker-admin.jar latest edeafaf7e12d 2 hours ago 515MB
spring-boot-docker.jar latest bee6857fe7f7 24 hours ago 545MB
mysql latest 8189e588b0e8 7 days ago 564MB
docker/getting-started latest 3e4394f6b72f 4 months ago 47MB

C:\Users\Administrator\Desktop\infobell->docker run -p 8080:8080 java_app
docker: Error response from daemon: Ports are not available: exposing port TCP 0.0.0.0:8080 -> 0.0.0.0:8080: listen tcp 0.0.0.0:8080: bind: Only one usage of each socket address (protocol/network address/port) is normally permitted.

C:\Users\Administrator\Desktop\infobell->docker network ls
NETWORK ID NAME DRIVER SCOPE
c4faa8a4c4e1 bridge bridge local
7da146f21ed4 host host local
06cad5a2ad30 none null local

C:\Users\Administrator\Desktop\infobell->docker network create spring-net
834009881a306ea96809f31361831650ac7328a87be61904b4401b26638c27bd

C:\Users\Administrator\Desktop\infobell->docker network connect spring-net mysqladb
[]
Error: No such network: mysqladb

C:\Users\Administrator\Desktop\infobell->docker network inspect mysqladb
[]
Error: No such network: mysqladb

C:\Users\Administrator\Desktop\infobell->docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

C:\Users\Administrator\Desktop\infobell->docker network inspect
"docker network inspect" requires at least 1 argument.
See 'docker network inspect --help'.

Usage: docker network inspect [OPTIONS] NETWORK [NETWORK...]

Display detailed information on one or more networks

C:\Users\Administrator\Desktop\infobell->docker run -d -p 3307:3306 --name mysqladb -e MYSQL_ROOT_PASSWORD=root -e MYSQL_DATABASE=test mysql
docker: Error response from daemon: Conflict: The container name "/mysqladb" is already in use by container "9bddaf1a4bd6107476fa9fa443b6c5c9e742a4fa0cd2c89b9a85d59bbd0073e76". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

Activate Windows
Go to Settings to activate Windows.
```



```
Administrator C:\Windows\System32\cmd.exe
See 'docker run --help'.

C:\Users\Administrator\Desktop\infobell-2>docker rm mysql
mysql
C:\Users\Administrator\Desktop\infobell-2>docker run -d -p 3307:3306 --name mysql -e MYSQL_ROOT_PASSWORD=root -e MYSQL_DATABASE=test mysql
30c543bfc70950da82695e94f004b7d5c6f48b5870cc35f47c393514917763d
C:\Users\Administrator\Desktop\infobell-2>docker network connect spring-net mysql
C:\Users\Administrator\Desktop\infobell-2>docker network inspect mysql
[]
Error: No such network: mysql
C:\Users\Administrator\Desktop\infobell-2>docker rm mysql
mysql
C:\Users\Administrator\Desktop\infobell-2>docker run -d -p 3307:3306 --name mysql -e MYSQL_ROOT_PASSWORD=sept22 -e MYSQL_DATABASE=test mysql
c4082669c96213e08332ced1af04b0b713df94673fcab99392dcb077aca2f72
C:\Users\Administrator\Desktop\infobell-2>docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
c4fa08e424e1    bridge   bridge      local
7da146f21ed4    host     host        local
06cad5a2ad30    none     null        local
834009881a36    spring-net bridge      local
C:\Users\Administrator\Desktop\infobell-2>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED      STATUS      PORTS      NAMES
C:\Users\Administrator\Desktop\infobell-2>docker run -d -p 3307:3306 --name mysql -e MYSQL_ROOT_PASSWORD=sept22 -e MYSQL_DATABASE=test mysql
docker: Error response from daemon: Conflict. The container name "/mysql" is already in use by container "c4082669c96213e08332ced1af04b0b713df94673fcab99392dcb077aca2f72". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\Administrator\Desktop\infobell-2>docker rm mysql
mysql
C:\Users\Administrator\Desktop\infobell-2>docker run -d -p 3307:3306 --name mysql -e MYSQL_ROOT_PASSWORD=root -e MYSQL_DATABASE=test mysql
963a091a5eeb73a0d6432f1a751bba8dd8893b8182a2a227fc91e217fae870a1
C:\Users\Administrator\Desktop\infobell-2>docker rm mysql
Error response from daemon: You cannot remove a running container 963a091a5eeb73a0d6432f1a751bba8dd8893b8182a2a227fc91e217fae870a1. Stop the container before attempting removal or force remove
```

```
Administrator: Command Prompt - mysql -u root -p
Query OK, 1 row affected (0.03 sec)

mysql> create table adminmodel (UID int,FullName varchar(50),Email varchar(50),Contact int(10)) ;
ERROR 1046 (3D000): No database selected
mysql> use test;
Database changed
mysql> create table adminmodel (UID int,FullName varchar(50),Email varchar(50),Contact int(10)) ;
Query OK, 0 rows affected, 1 warning (0.05 sec)

mysql> desc adminmodel;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| UID   | int  | YES  |     | NULL    |       |
| FullName | varchar(50) | YES  |     | NULL    |       |
| Email | varchar(50) | YES  |     | NULL    |       |
| Contact | int  | YES  |     | NULL    |       |
+----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> drop adminmodel;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'adminmodel' at line 1
mysql> drop table adminmodel;
Query OK, 0 rows affected (0.16 sec)

mysql> create table adminmodel (uid int primary key auto_increment,name varchar(50),email varchar(50),contact int(10)) ;
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql>
```