Assignment 2(b)

b. Create Docker Container Environment (NVIDEIA Docker or any other).

```
Microsoft Windows [Version 10.0.22631.4751]
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C:\Users\exam>docker -v
Docker version 24.0.6, build ed223bc
C:\Users\exam>docker pull openjdk
Using default tag: latest
latest: Pulling from library/openjdk
Digest: sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
Status: Image is up to date for openjdk:latest
docker.io/library/openjdk:latest
What's Next?
 1. Sign in to your Docker account → docker login
  2. View a summary of image vulnerabilities and recommendations → docker scout quickview openjdk
C:\Users\exam>docker image
Usage: docker image COMMAND
Manage images
Commands:
  build
              Build an image from a Dockerfile
  history
              Show the history of an image
              Import the contents from a tarball to create a filesystem image
  import
  inspect
              Display detailed information on one or more images
  load
              Load an image from a tar archive or STDIN
  ls
              List images
  prune
              Remove unused images
              Download an image from a registry
  pull
  push
              Upload an image to a registry
  rm
              Remove one or more images
              Save one or more images to a tar archive (streamed to STDOUT by default)
  save
```

Run 'docker image COMMAND --help' for more information on a command.

C:\Users\exam>docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
2b	latest	e6168e1b015b	3 weeks ago	163MB
python	latest	36d17f72f4f3	6 weeks ago	1.02GB
assignment2b	latest	bb4e94edea03	12 months ago	141MB
practical2b	latest	8384b34f9f54	12 months ago	141MB
openjdk	latest	71260f256d19	2 years ago	470MB

C:\Users\exam>docker run --name JAVA -it -d openjdk 90674dec6b007c10bd4534837371a08ba140f3409b9a462d776898217ed578fc

```
C:\Users\exam>docker exec -it JAVA jshell
| Welcome to JShell -- Version 18.0.2.1
  For an introduction type: /help intro
jshell> System.out.println("Hello world");
Hello world
jshell> int a=30;
a ==> 30
jshell> int b=6;
b ==> 6
jshell> System.out.println(a*b);
jshell> System.out.println(a+b);
jshell> docker ps
  created variable ps, however, it cannot be referenced until class docker is declared
jshell> /exit
 Goodbye
C:\Users\exam>docker ps
CONTAINER ID IMAGE COMMAND CREATED
                                                                              NAMES
90674dec6b00 openjdk "jshell" 4 minutes ago Up 4 minutes
                                                                              JAVA
C:\Users\exam>docker container rm 90674dec6b00
Error response from daemon: You cannot remove a running container 90674dec6b007c10bd4534837371a08ba140f3409b9a462d776898217ed578fc. Stop the contain
er before attempting removal or force remove
C:\Users\exam>docker stop 90674dec6b004d
```

C:\Users\exam>docker stop 90674dec6b00 90674dec6b00

C:\Users\exam>docker images

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C:\Users\exam>docker image prune WARNING! This will remove all dangling images. Are you sure you want to continue? [y/N] y Total reclaimed space: OB