

## Assignment No - 2(B)

Name: Madhusudan D. Pangarkar

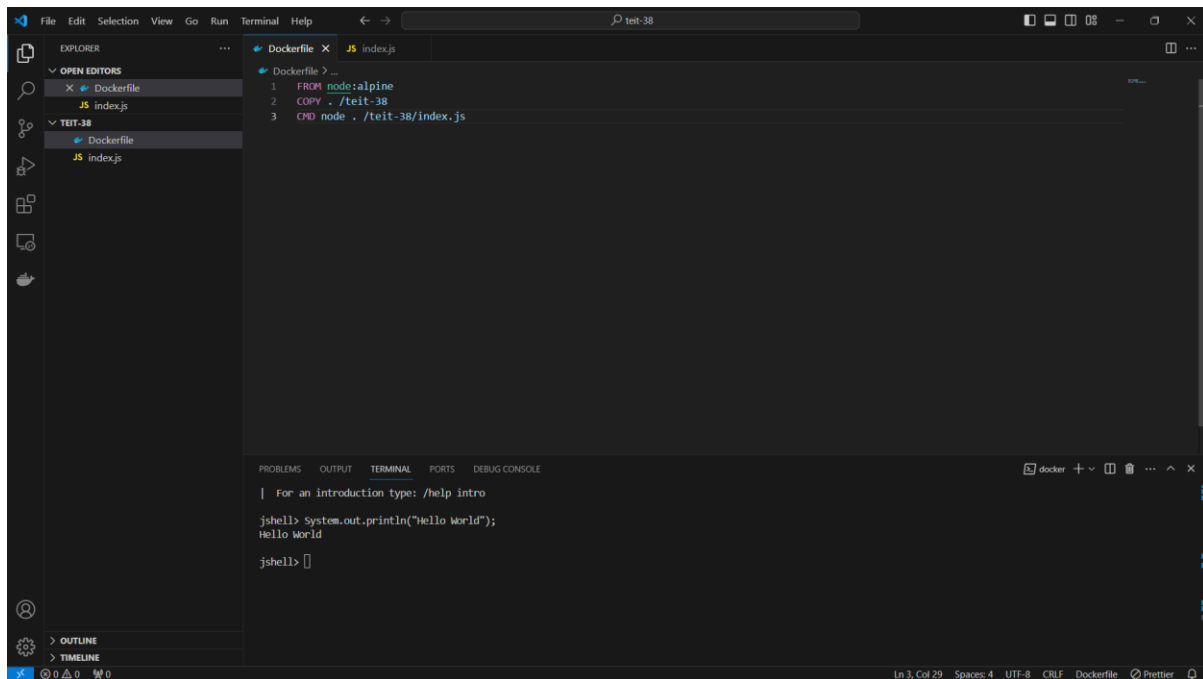
Class: TE-IT Roll No.: 38

Sub: WAD-Lab

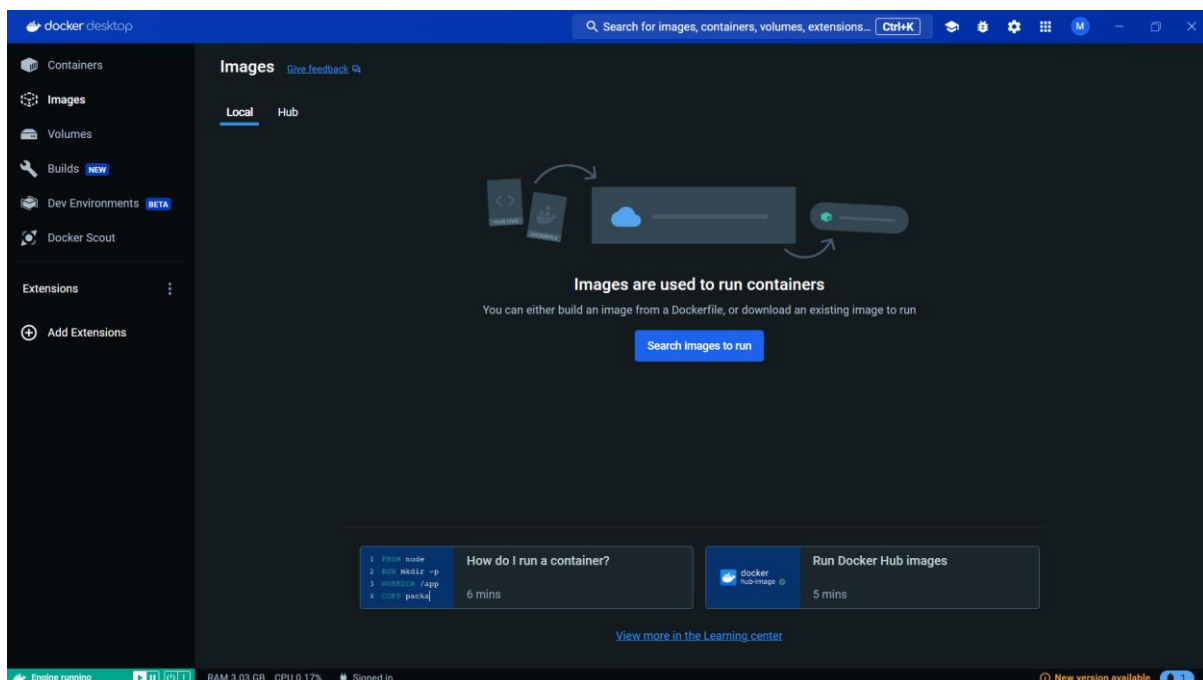
Title: Create Docker Container Environment (NVIDIA Docker or any other)

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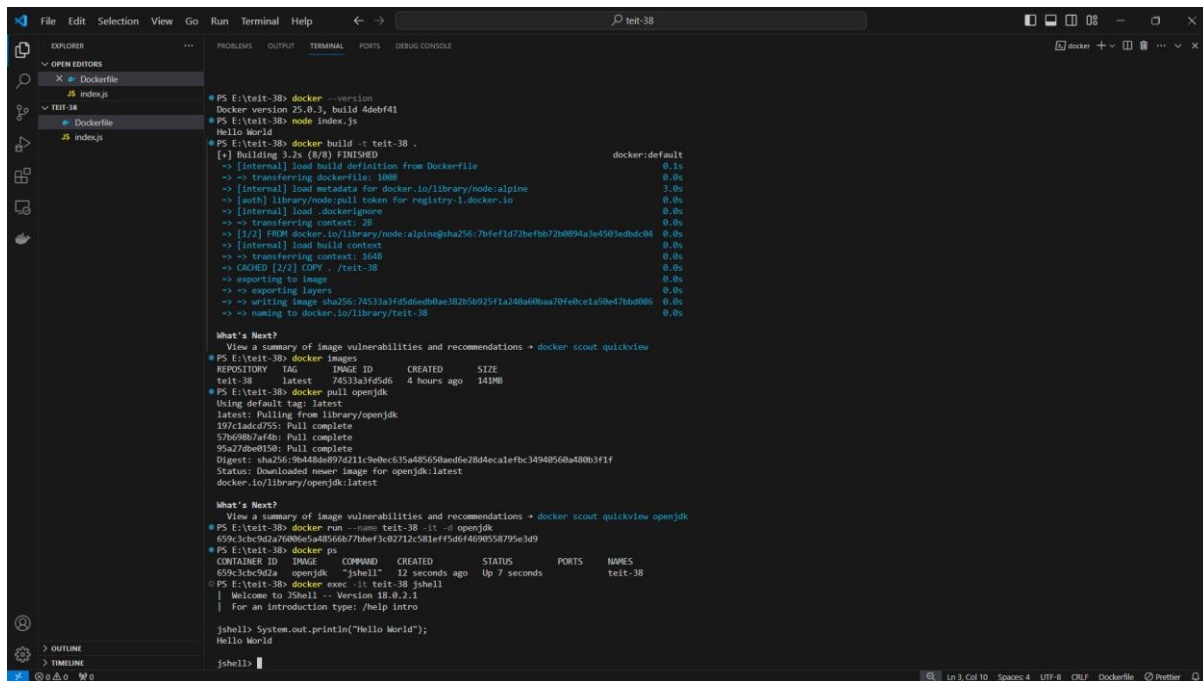
### 1) Code in DockerFile:



### 2) Initial Docker Images Interface:



### 3) Commands:



```
PS E:\teit-38> docker --version
Docker version 25.0.3, build 4deb4f41

PS E:\teit-38> node index.js
Hello World

PS E:\teit-38> docker build -t teit-38 .
[+] Building 3.2s (8/8) FINISHED
-> [internal] load build definition from Dockerfile 0.1s
-> [internal] load metadata for docker.io/library/node:alpine 0.0s
-> [internal] load metadata for docker.io/library/node:alpine 3.0s
-> [auth] library/node:pull token for registry-1.docker.io 0.0s
-> [internal] load .dockerignore 0.0s
-> [internal] transfer context: 28 0.0s
-> [1/2] FROM docker.io/library/node:alpine@sha256:7bfe1d72be7b72b0894a3e503edbd04 0.0s
-> [internal] load build context 0.0s
-> -- transferring context: 164B 0.0s
-> CACHED [2/2] COPY . /teit-38 0.0s
-> exporting to image 0.0s
-> -- exporting layers 0.0s
-> -- writing image sha256:74533a3fd5d640ae382b50925f1a280a60baa70f6f6c1a5bed7bbd086 0.0s
-> -- naming to docker.io/library/teit-38 0.0s

What's Next?
View a summary of image vulnerabilities and recommendations • docker scout quickview

PS E:\teit-38> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
teit-38 latest 74533a3fd5d6 4 hours ago 140MB

PS E:\teit-38> docker pull openjdk
Using default tag: latest
latest: Pulling from library/openjdk
197c1ddcf55: Pull complete
57b698b7af4b: Pull complete
95a27db08158: Pull complete
Digest: sha256:9e448e897d211c9ebc635a485650aed628d4ecalefbc34948560a480b3f1f
Status: Downloaded newer image for openjdk:latest
docker.io/library/openjdk:latest

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PS E:\teit-38> docker run --name teit-38 -it --openjdk
659c3bc92a7680c4e856077b0ef3c02712c581ef35d6f4690558795e3d9

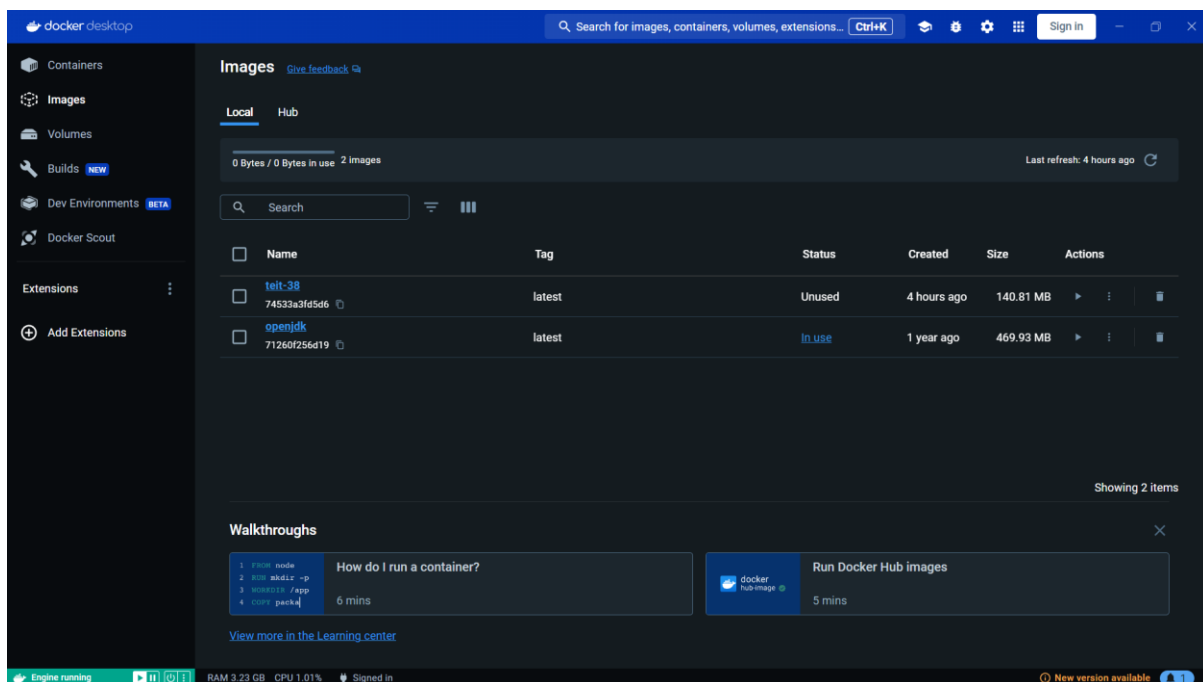
PS E:\teit-38> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
659c3bc92a7680c4e856077b0ef3c02712c581ef35d6f4690558795e3d9 openjdk "jshell" 12 seconds ago Up 7 seconds teit-38

PS E:\teit-38> docker exec -it teit-38 jshell
Welcome to JShell -- Version 18.0.2.1
For an introduction type: /help intro

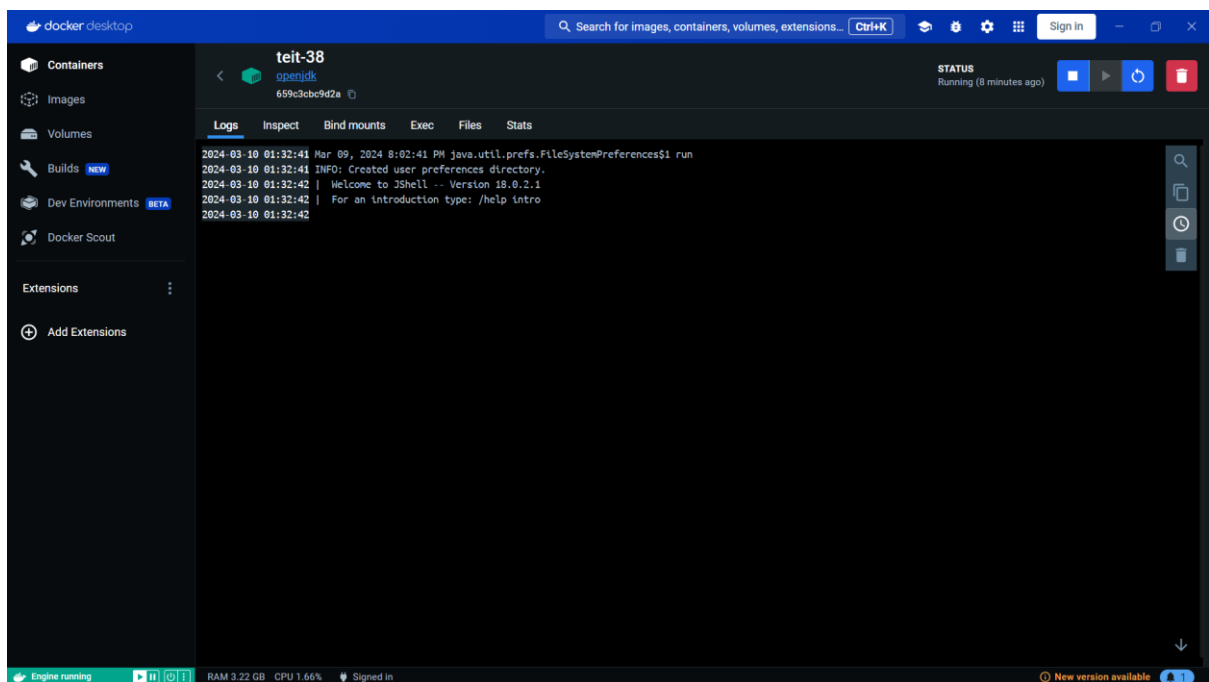
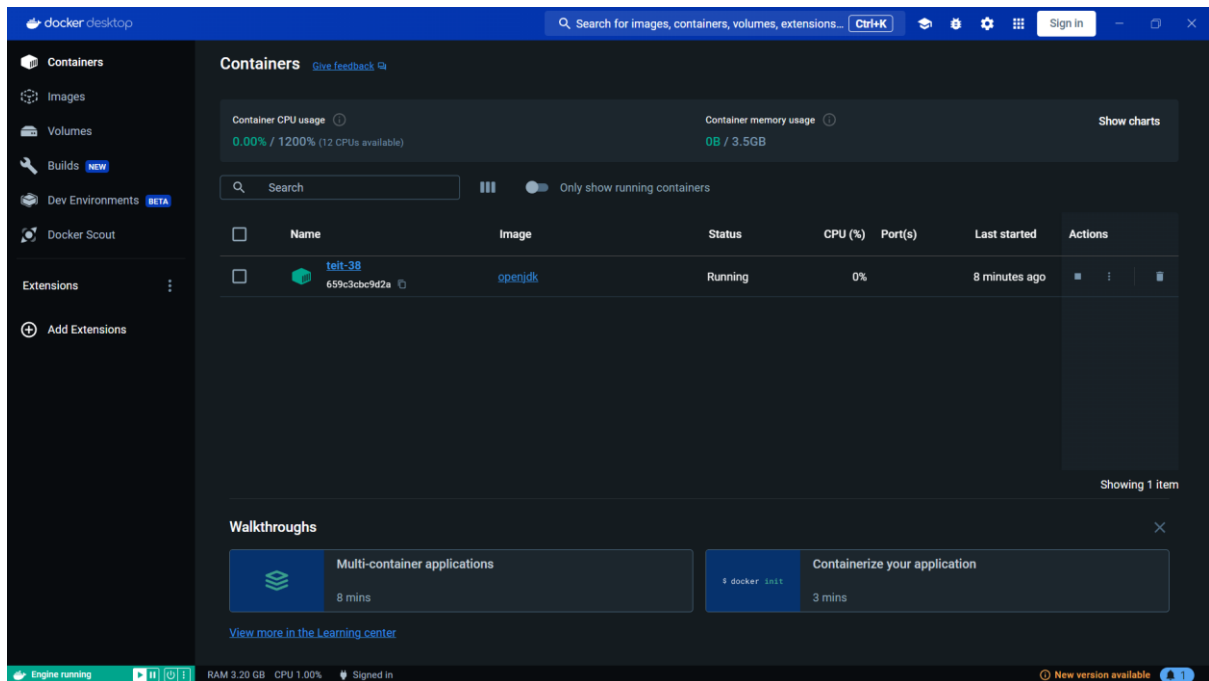
jshell> System.out.println("Hello World");
Hello World

jshell>
```

### 4) Docker Images:



## 5) Container:



docker desktop

Search for images, containers, volumes, extensions... Ctrl+K

Containers

Images

Volumes

Builds NEW

Dev Environments BETA

Docker Scout

Extensions

+

Add Extensions

openjdk:latest IN USE

71260f256d19

CREATED

1 year ago

SIZE

469.93 MB

Recommended fixes

Run

Advanced image analysis is provided by Docker Scout  
Upgrade to continue to get access to guided vulnerability remediation and additional software supply chain features. [Learn more](#) and [upgrade](#).

Layers (9)

Images

Vulnerabilities

Packages

Give feedback

0	ADD file:6a3fb962576ab4237e9335cfc419249f08417e2...	109.62 MB
1	CMD ["/bin/bash"]	0 B
2	set -eux; microdnf install gzip tar binutils freetype fontcon...	36.67 MB
3	ENV JAVA_HOME=/usr/java/openjdk-18	0 B
4	ENV PATH=/usr/java/openjdk-18/bin:/usr/local/sbin:/usr/...	0 B
5	ENV LANG=C.UTF-8	0 B
6	ENV JAVA_VERSION=18.0.2.1	0 B
7	set -eux; arch=\${objdump-\${command~v objdump}} && ...	323.64 MB
8	CMD ["jshell"]	0 B

Analyzing image

SBOM of image already cached, 139 packages indexed  
SBOM indexing preferences can be changed in [Settings](#)

Engine running

RAM 9.28 GB CPU 0.75%

Signed in

New version available