# Name :- Sarthak Pagar

# Roll No. :- 40

# Class :- TE(IT)

# Practical 2b :- Create Docker Container Environment (NVIDEIA Docker or any other)

**app.js**

console.log("Hello from Docker!");

**package.json**

{

"name": "docker-app",

"version": "1.0.0",

"main": "app.js",

"scripts": {

"start": "node app.js"

}

}

Create an empty file without entension – “Dockerfile”

# Use Node.js base image

FROM node:18

# Set working directory

WORKDIR /app

# Copy files

COPY . .

# Install dependencies

RUN npm install

# Run the app

CMD ["npm", "start"]

**How to start**

Use the same folder path.

Before running below line, turn on Docker engine.

- docker build -t my-node-app .

This will download the base image and build your container.

Run the Docker Container

- docker run my-node-app

You will se the output.

See Running Containers

- docker ps -a

To remove it

- docker rm container\_id

**Command Prompt**

Microsoft Windows [Version 10.0.19045.5608]

(c) Microsoft Corporation. All rights reserved.

C:\Users\sspag>docker --version

Docker version 27.5.1, build 9f9e405

C:\Users\sspag>cd C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app

C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app>docker build -t my-node-app .

[+] Building 157.4s (9/9) FINISHED docker:desktop-linux

=> [internal] load build definition from Dockerfile 1.6s

=> => transferring dockerfile: 228B 0.0s

=> [internal] load metadata for docker.io/library/node:18 5.9s

=> [internal] load .dockerignore 0.6s

=> => transferring context: 2B 0.0s

=> [1/4] FROM docker.io/library/node:18@sha256:df9fa4e0e39c9b97e30240b5bb1d99bdb861573a82002b2c52ac7d6b8d6d773e 131.4s

=> => resolve docker.io/library/node:18@sha256:df9fa4e0e39c9b97e30240b5bb1d99bdb861573a82002b2c52ac7d6b8d6d773e 0.5s

=> => sha256:df9fa4e0e39c9b97e30240b5bb1d99bdb861573a82002b2c52ac7d6b8d6d773e 6.41kB / 6.41kB 0.0s

=> => sha256:aa6c239d30ee04dede270729f9502389b1a9546687ce656872536340ee0a9e03 2.49kB / 2.49kB 0.0s

=> => sha256:de20d623379fc7c7ccf845a22c3153b920d57446ba7c8e64ba25d21a60b48ad6 6.39kB / 6.39kB 0.0s

=> => sha256:23b7d26ef1d294256da0d70ce374277b9aab5ca683015073316005cb63d33849 48.49MB / 48.49MB 41.3s

=> => sha256:07d1b5af933d2dfc3d0dd509d6e20534825e4a537f7b006a6cb5b8e5a1f20905 24.01MB / 24.01MB 20.9s

=> => sha256:1eb98adba0eb44a2e4facf9ca3626a4a66feedd0dd56d159cca90a35205744e7 64.40MB / 64.40MB 26.4s

=> => sha256:b617a119f8a27982374d94ec6eb3738ae3d38d6fc2c34c865813926cf596a621 211.33MB / 211.33MB 81.3s

=> => sha256:ee496386c5de1ce84096ca486e1aabcdf7cb8f0afd5a9b4863dbf870b340744f 3.32kB / 3.32kB 27.3s

=> => sha256:058db40e534297246fb14bc4e107d2f6ddc140494a26793e1e90696cd6b2507a 45.68MB / 45.68MB 45.8s

=> => sha256:04deb1529fda049f44f9be8d16ca833a53961813ce07eda3cefd50cd3fd74880 1.25MB / 1.25MB 44.0s

=> => extracting sha256:23b7d26ef1d294256da0d70ce374277b9aab5ca683015073316005cb63d33849 10.8s

=> => sha256:3b3ca5178f3ece5f7e96b38b9c4b9c3a101a9d6777cf0f5c320f869512c80024 448B / 448B 45.1s

=> => extracting sha256:07d1b5af933d2dfc3d0dd509d6e20534825e4a537f7b006a6cb5b8e5a1f20905 3.5s

=> => extracting sha256:1eb98adba0eb44a2e4facf9ca3626a4a66feedd0dd56d159cca90a35205744e7 15.1s

=> => extracting sha256:b617a119f8a27982374d94ec6eb3738ae3d38d6fc2c34c865813926cf596a621 23.0s

=> => extracting sha256:ee496386c5de1ce84096ca486e1aabcdf7cb8f0afd5a9b4863dbf870b340744f 0.0s

=> => extracting sha256:058db40e534297246fb14bc4e107d2f6ddc140494a26793e1e90696cd6b2507a 6.8s

=> => extracting sha256:04deb1529fda049f44f9be8d16ca833a53961813ce07eda3cefd50cd3fd74880 0.3s

=> => extracting sha256:3b3ca5178f3ece5f7e96b38b9c4b9c3a101a9d6777cf0f5c320f869512c80024 0.0s

=> [internal] load build context 1.2s

=> => transferring context: 464B 0.0s

=> [2/4] WORKDIR /app 5.2s

=> [3/4] COPY . . 2.3s

=> [4/4] RUN npm install 4.5s

=> exporting to image 2.6s

=> => exporting layers 1.9s

=> => writing image sha256:25e0a894a91dc5fb9c57ad44d8a5b3017b879b937daae6e1775c369efa26cc1d 0.1s

=> => naming to docker.io/library/my-node-app 0.1s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/dpy9ae466675pwd40i4w84uxf

C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app>docker run my-node-app

> docker-app@1.0.0 start

> node app.js

Hello from Docker!

C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app>docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

97066ad93584 my-node-app "docker-entrypoint.s…" 59 seconds ago Exited (0) 52 seconds ago sweet\_ramanujan

C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app>docker rm 97066ad93584

97066ad93584

C:\Users\sspag\Desktop\Practicals\6th sem\WAD Practicals\Assignment\Practical 2B\my-docker-app>docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

**Output :-**

