

Experiment No. 2.1

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Branch: MCA–CCD

Semester: III

Subject Name: CONTAINERIZATION
WITH DOCKER

UID: 22MCC20177

Section/Group: MCD-1/A

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Subject Code: 22CAH-742

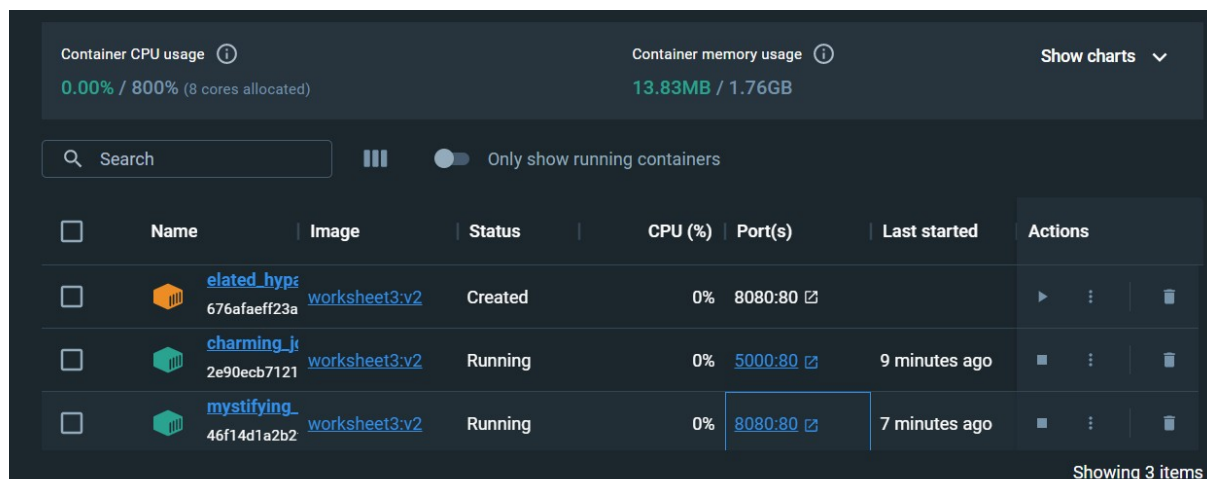
1. Aim/Overview of the practical:

- a) Deploy webapp with the help of Docker.

2. Code for practical: (a)

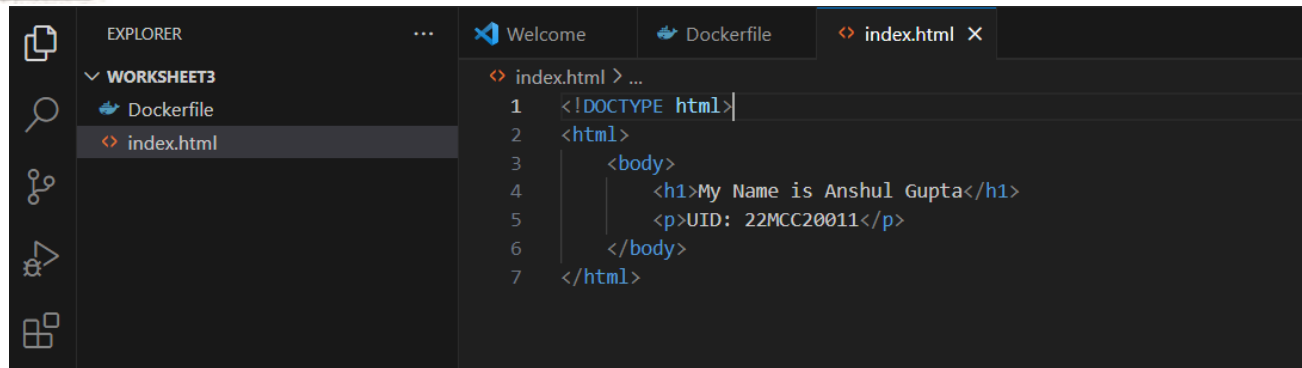
Creating a container through CLI

Step 1 : First open your “**Docker Desktop**”.



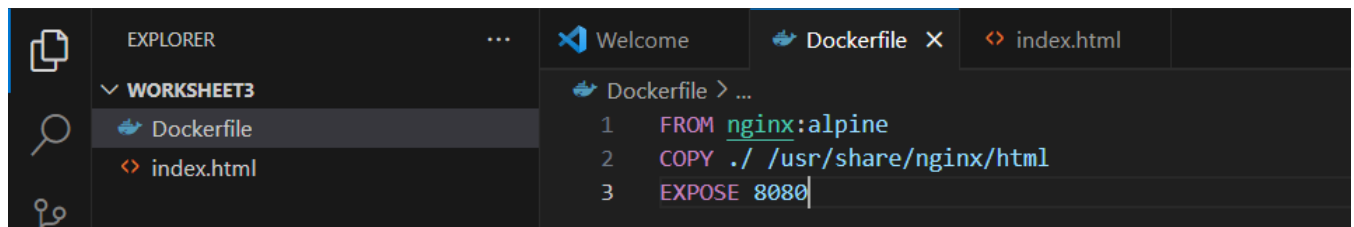
Step 2 : Open your Vs-code on your machine.

Step 3 : Create one folder inside that folder create two file one “**index.html**” another “**Dockerfile**”.



VS Code Explorer view showing the file structure of the project. The 'WORKSHEET3' folder is expanded, showing 'Dockerfile' and 'index.html'. The 'index.html' file is selected, and its content is displayed in the editor:

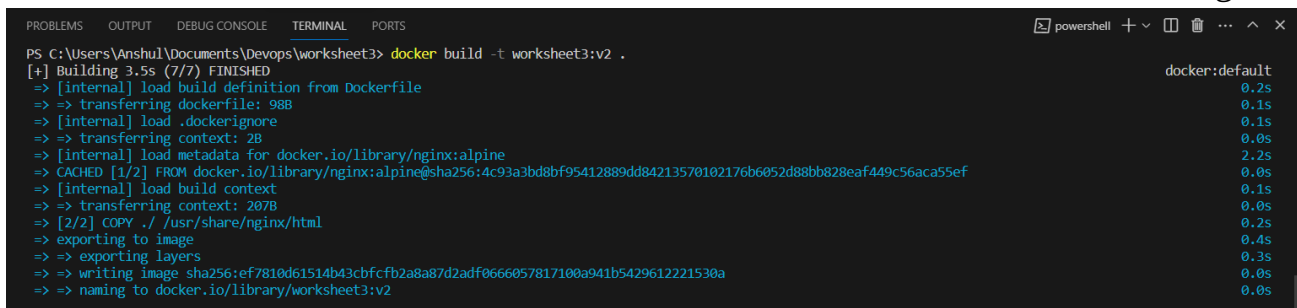
```
1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1>My Name is Anshul Gupta</h1>
5     <p>UID: 22MCC20011</p>
6   </body>
7 </html>
```



VS Code Dockerfile view showing the content of the Dockerfile:

```
1 FROM nginx:alpine
2 COPY ./ /usr/share/nginx/html
3 EXPOSE 8080
```

Step 4 : Use command “**docker build -t worksheet3:v2 .**” to build an image.

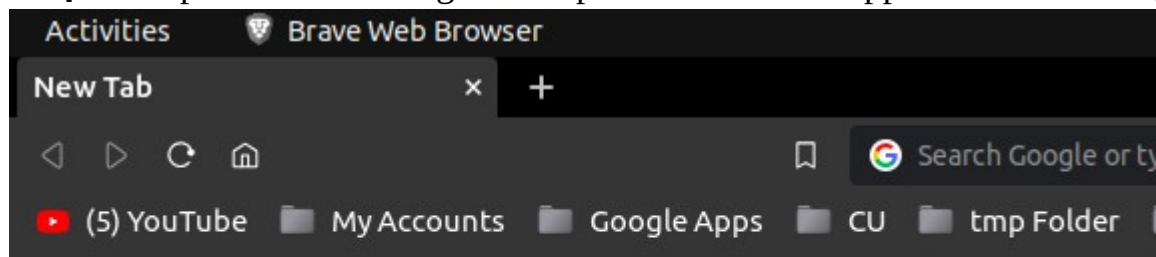


Terminal output showing the execution of the `docker build -t worksheet3:v2 .` command:

```
PS C:\Users\Anshul\Documents\Devops\worksheet3> docker build -t worksheet3:v2 .
[+] Building 3.5s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 98B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> CACHED [1/2] FROM docker.io/library/nginx:alpine@sha256:4c93a3bd8bf95412889dd84213570102176b6052d88bb828eaf449c56aca55ef
=> [internal] load build context
=> => transferring context: 207B
=> [2/2] COPY ./ /usr/share/nginx/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:ef7810d61514b43cbfcfb2a8a87d2adf0666057817100a941b5429612221530a
=> => naming to docker.io/library/worksheet3:v2
```

Step 5 : Now use command “**docker run -d -p 8080:80 worksheet3:v2**” to run the image.

Step 6 : Open browser and go to the port on which the application is running.



My Name is Gaurav Kumar

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