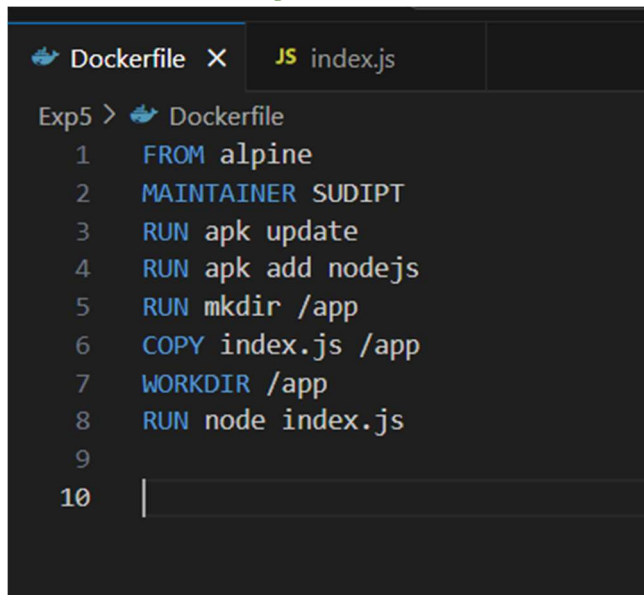# EXPERIMENT 5

AIM: Working with Dockerfile to Build and Push Docker Image

Steps to Complete:

1. Create following Dockerfile

```
FROM alpine
MAINTAINER SUDIPT
RUN apk update
RUN apk add nodejs
RUN mkdir /app
COPY index.js /app
WORKDIR /app
RUN node index.js
```

2. Now we have dockerized the app, we will Build image from Dockerfile.

```
docker build –t myimage:0.1 .
```

```
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker build -t myimage:0.1 .
[+] Building 56.3s (12/12) FINISHED
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 187B
 => [internal] load metadata for docker.io/library/alpine:latest
 => CACHED [1/7] FROM docker.io/library/alpine
 => [internal] load build context
 => => transferring context: 29B
 => [2/7] RUN apk update
 => [3/7] RUN apk add nodejs
 => [4/7] RUN mkdir /app
 => [5/7] COPY index.js /app
 => [6/7] WORKDIR /app
 => [7/7] RUN node index.js
 => exporting to image
 => => exporting layers
 => => writing image sha256:bf00d84eec77f83b7f61511e41e4ba6d885711eb2f61e463249470bf531d75c2
 => => naming to docker.io/library/myimage:0.1

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

3. Create account on Dockerhub and create a repository in it.

Yatharth Singh   Edit profile

👤 Community User   🕓 Joined November 21, 2023

Repositories   Starred   Contributed

Displaying 1 to 2 repositories

4. Tag the recently created image using following command.

```
docker tag imageID Repositoryname
```


5. Login to Dockerhub from console using following command.

```
docker Login
```

6. Now push the image on Dockerhub using following command.

```
docker push Repositoryname
```

PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker push yatharthdocker/aco_exp5
Using default tag: latest
The push refers to repository [docker.io/yatharthdocker/aco_exp5]
2069e460cec1: Pushed
5f70bf18a086: Mounted from katacoda/redis-node-docker-example
862c0697ed01: Pushed
0c83236e05a5: Pushed
9542fe2d9c8b: Pushed
f823c4d1216e: Pushed
9fe9a137fd00: Mounted from library/alpine
latest: digest: sha256:2c710817b3d1e9df73218cc98922c6cb17168c68bf4f472503274b4f321d2599 size: 1777
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5>

🌐 yatharthdocker / aco_exp5

Description

This repository does not have a description ✏️

🕐 Last pushed: a minute ago

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
● latest	🐧	Image	---	3 minutes ago

See all   Go to Advanced Image Management

Repository overview ℹ️

An overview describes what your image does and how to run it. It displays in the public view of your repository.

7. Pull and Run the container of your deployed image on docker hub.

```
Docker run -d image_name
```

PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker run -d myimage:0.1
9ed9a27718a040a1800d3a61662a42fec860982ccee5b7e69bc4ae1a50cfaa7e
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5>