Docker Homework

1. Create folder for the Docker file

```
D:\>mkdir -p hello-world
D:\>cd hello-world
D:\hello-world>_
```

2. Create an app with "node js"

```
app > JS index.js > ...

import express from "express";

import bodyParser from 'body-Parser';

import cors from 'cors';

const app = express();

const port = 5000;

app.use(bodyParser.json());

app.use(cors());

app.use(cors());

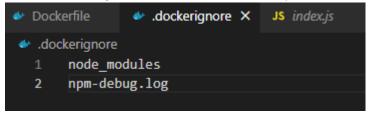
app.get('/', (req, res) => res.send('Hello from the backend'));

app.all('*', (req, res) => res.send('That rout doesnt exist'));

app.listen(port, ()=>console.log(`server running on port: ${port}`));
```

3. Create a Dockerfile (for node js 16)

4. Create a Dockerignore file in the same directory of the dockerfile



5. Building our image

```
D:\hello-world\app>docker build . -t bryanlopez/node-web-app

[+] Building 4.6s (10/10) FINISHED

> [internal] load build definition from Dockerfile

> => transferring dockerfile: 32B

> [internal] load .dockerignore

> -> transferring context: 34B

= [internal] load metadata for docker.io/library/node:16

> [internal] load build context

> | [internal] load build context

> | 0.8s

> | (internal] load build context

| 0.8s

| 0.8s

| (internal] load metadata for docker.io/library/node:16@sha256:ffe804d6fcced29bcfc3477de079d03a9c2b0e4917e44bfeafb1a6b0f875e383

| 0.8s

| (internal] load build context
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```

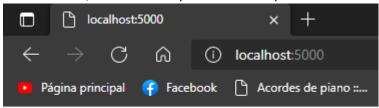
6. Now let¿s check the image:

```
D:\hello-world\app>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
bryanlopez/node-web-app latest 840a6ccc4635 33 seconds ago 913MB
```

7. And finally run the image:

```
D:\hello-world\app>docker run -it -p 5000:5000 bryanlopez/node-web-app
server running on port: 5000
```

9. As we can see, we successfully recievied a response



Hello from the backend

10. And our server is running

```
D:\hello-world\app>docker ps
COMMAND
CREATED
STATUS
PORTS
NAMES
42d186f0de1b bryanlopez/node-web-app "docker-entrypoint.s..." About an hour ago Up About an hour a hour a hour a hour an hour
```

12. Then stop the container