National Textile University

Department of Computer Science

Subject:

Operating system

Submitted To:

Sir Nasir

Submitted By:

Noor ul Ain

Registration No:

23-NTU-CS-1221

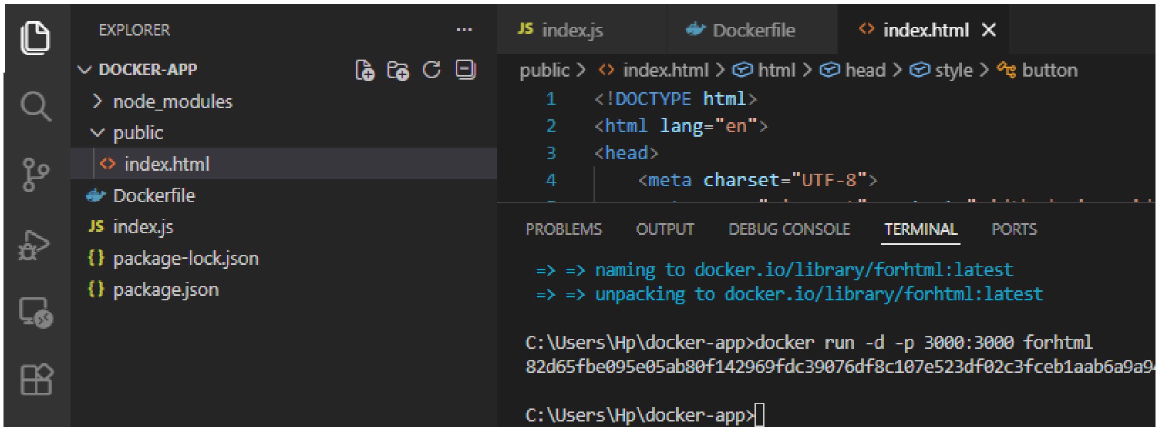
Lab no:

13

Semester:

5th

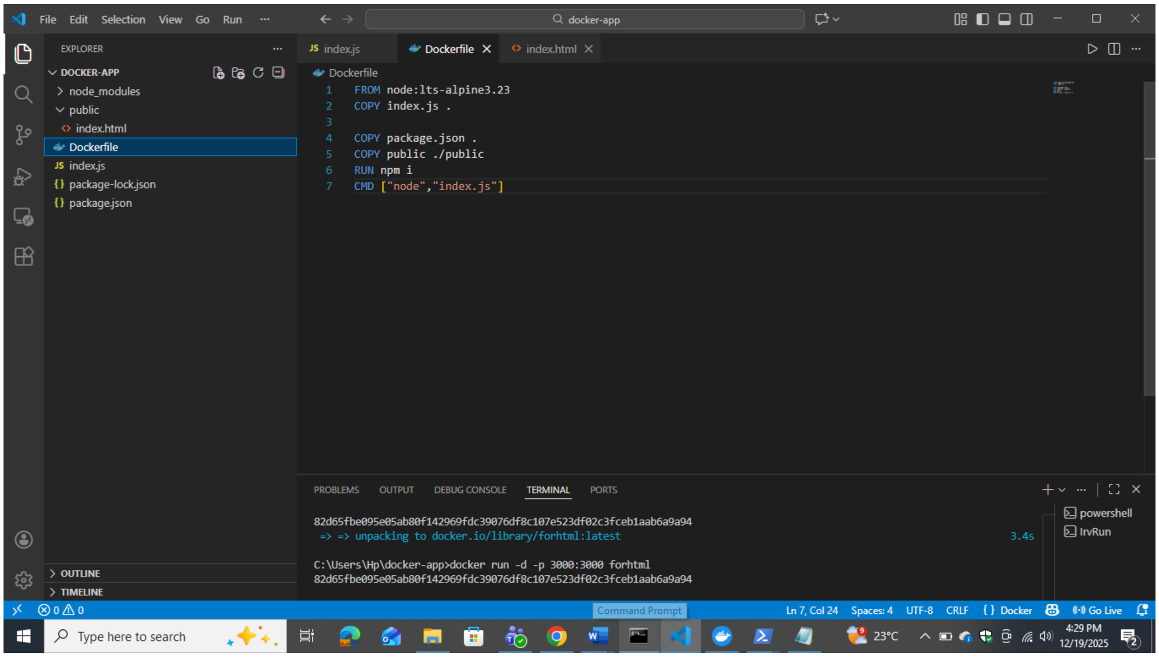
Directory structure:



```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

```
 => => naming to docker.io/library/forhtml:latest
 => => unpacking to docker.io/library/forhtml:latest

C:\Users\Hp\docker-app>docker run -d -p 3000:3000 forhtml
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a9

C:\Users\Hp\docker-app>
```

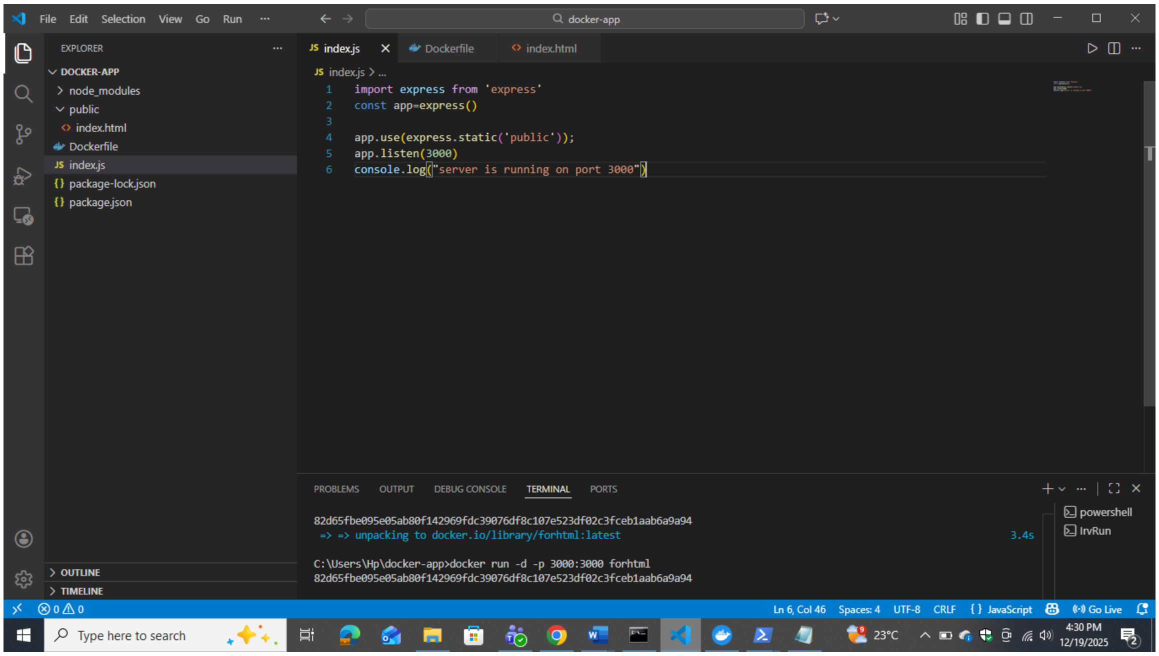
Docker file:



```dockerfile
FROM node:lts-alpine3.23
COPY index.js .

COPY package.json .
COPY public ./public
RUN npm i
CMD ["node","index.js"]
```

```
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
 => => unpacking to docker.io/library/forhtml:latest                    3.4s

C:\Users\Hp\docker-app>docker run -d -p 3000:3000 forhtml
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
```

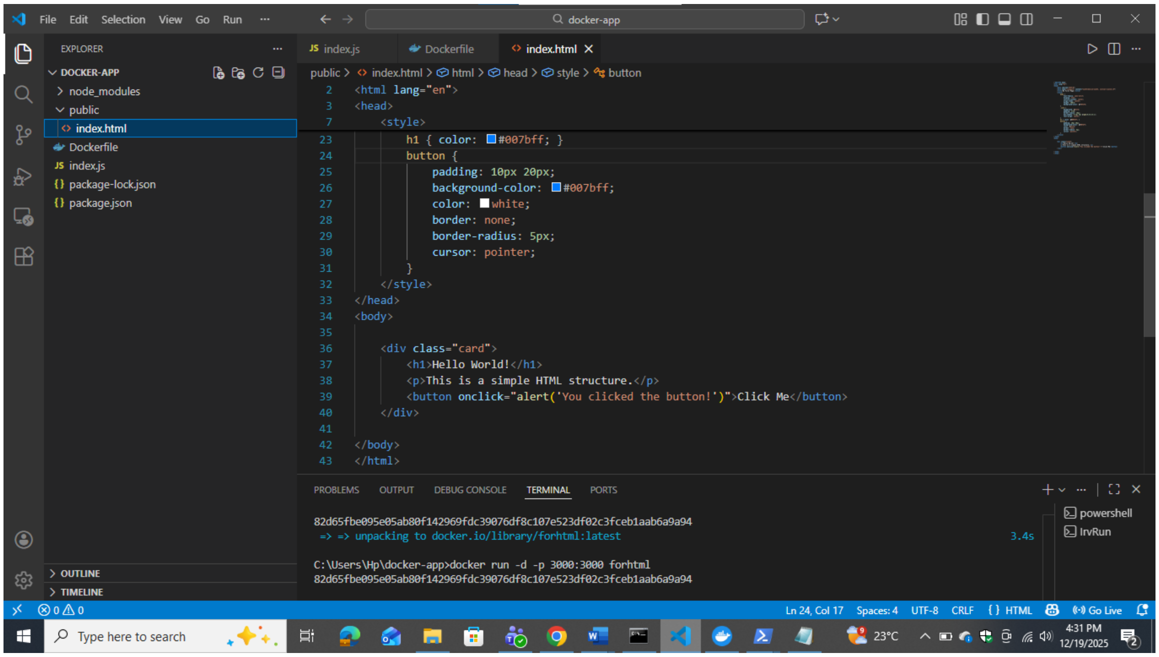
Javascript file:



```javascript
import express from 'express'
const app=express()

app.use(express.static('public'));
app.listen(3000)
console.log("server is running on port 3000")
```

```
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
 => => unpacking to docker.io/library/forhtml:latest                                3.4s

C:\Users\Hp\docker-app>docker run -d -p 3000:3000 forhtml
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
```

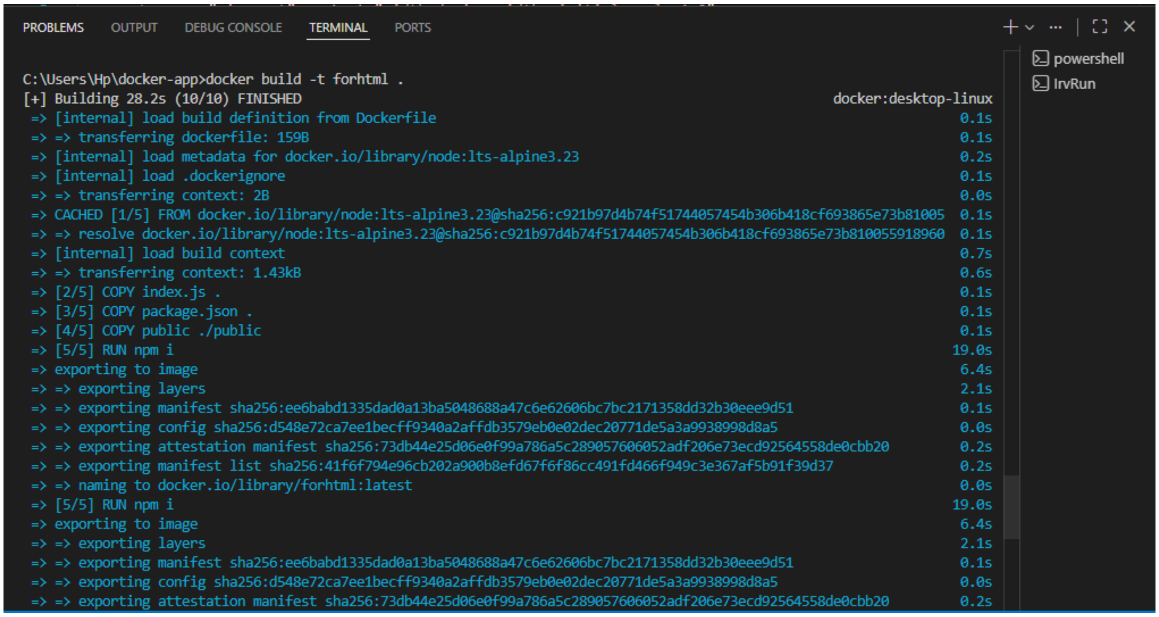
Html file:



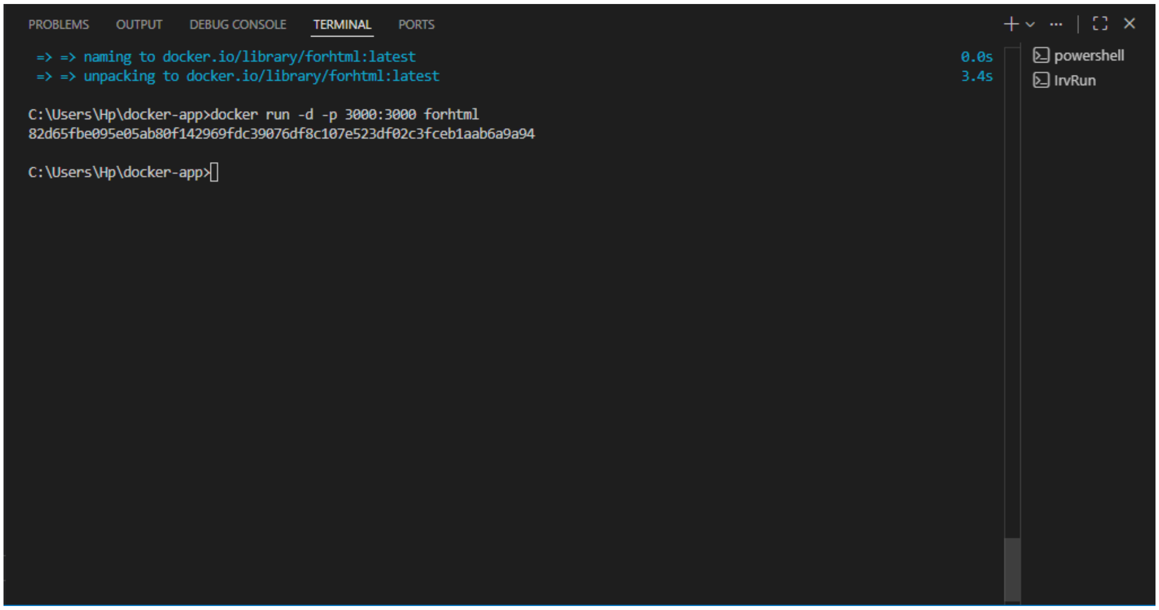
```html
<html lang="en">
<head>
    <style>
        h1 { color: #007bff; }
        button {
            padding: 10px 20px;
            background-color: #007bff;
            color: white;
            border: none;
            border-radius: 5px;
            cursor: pointer;
        }
    </style>
</head>
<body>

    <div class="card">
        <h1>Hello World!</h1>
        <p>This is a simple HTML structure.</p>
        <button onclick="alert('You clicked the button!')">Click Me</button>
    </div>

</body>
</html>
```

```
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
 => => unpacking to docker.io/library/forhtml:latest                                3.4s

C:\Users\Hp\docker-app>docker run -d -p 3000:3000 forhtml
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94
```

Image creation:

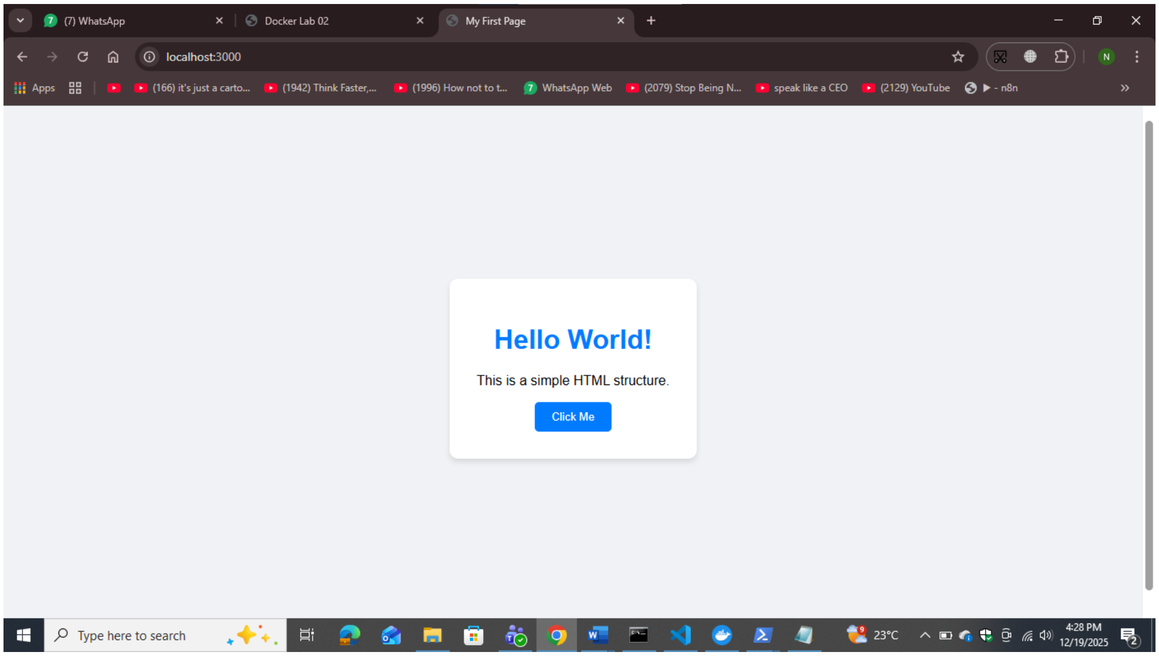


```
C:\Users\Hp\docker-app>docker build -t forhtml .
[+] Building 28.2s (10/10) FINISHED                                                      docker:desktop-linux
 => [internal] load build definition from Dockerfile                                                     0.1s
 => => transferring dockerfile: 159B                                                                     0.1s
 => [internal] load metadata for docker.io/library/node:lts-alpine3.23                                   0.2s
 => [internal] load .dockerignore                                                                        0.1s
 => => transferring context: 2B                                                                          0.0s
 => CACHED [1/5] FROM docker.io/library/node:lts-alpine3.23@sha256:c921b97d4b74f51744057454b306b418cf693865e73b81005  0.1s
 => => resolve docker.io/library/node:lts-alpine3.23@sha256:c921b97d4b74f51744057454b306b418cf693865e73b810055918960  0.1s
 => [internal] load build context                                                                        0.7s
 => => transferring context: 1.43kB                                                                      0.6s
 => [2/5] COPY index.js .                                                                                0.1s
 => [3/5] COPY package.json .                                                                            0.1s
 => [4/5] COPY public ./public                                                                           0.1s
 => [5/5] RUN npm i                                                                                     19.0s
 => exporting to image                                                                                   6.4s
 => => exporting layers                                                                                  2.1s
 => => exporting manifest sha256:ee6babd1335dad0a13ba5048688a47c6e62606bc7bc2171358dd32b30eee9d51        0.1s
 => => exporting config sha256:d548e72ca7ee1becff9340a2affdb3579eb0e02dec20771de5a3a9938998d8a5          0.0s
 => => exporting attestation manifest sha256:73db44e25d06e0f99a786a5c289057606052adf206e73ecd92564558de0cbb20  0.2s
 => => exporting manifest list sha256:41f6f794e96cb202a900b8efd67f6f86cc491fd466f949c3e367af5b91f39d37   0.2s
 => => naming to docker.io/library/forhtml:latest                                                        0.0s
 => [5/5] RUN npm i                                                                                     19.0s
 => exporting to image                                                                                   6.4s
 => => exporting layers                                                                                  2.1s
 => => exporting manifest sha256:ee6babd1335dad0a13ba5048688a47c6e62606bc7bc2171358dd32b30eee9d51        0.1s
 => => exporting config sha256:d548e72ca7ee1becff9340a2affdb3579eb0e02dec20771de5a3a9938998d8a5          0.0s
 => => exporting attestation manifest sha256:73db44e25d06e0f99a786a5c289057606052adf206e73ecd92564558de0cbb20  0.2s
```



```
 => => naming to docker.io/library/forhtml:latest                                                        0.0s
 => => unpacking to docker.io/library/forhtml:latest                                                     3.4s

C:\Users\Hp\docker-app>docker run -d -p 3000:3000 forhtml
82d65fbe095e05ab80f142969fdc39076df8c107e523df02c3fceb1aab6a9a94

C:\Users\Hp\docker-app>
```

Output:



Hello World!

This is a simple HTML structure.