Experiment 6

Aim: Install & Configure Visual Studio Code as an IDE, setup an environment for React by downloading Node.js and install React framework along with its packages. Understand the folder structure used by React and develop a “Hello World Application”.

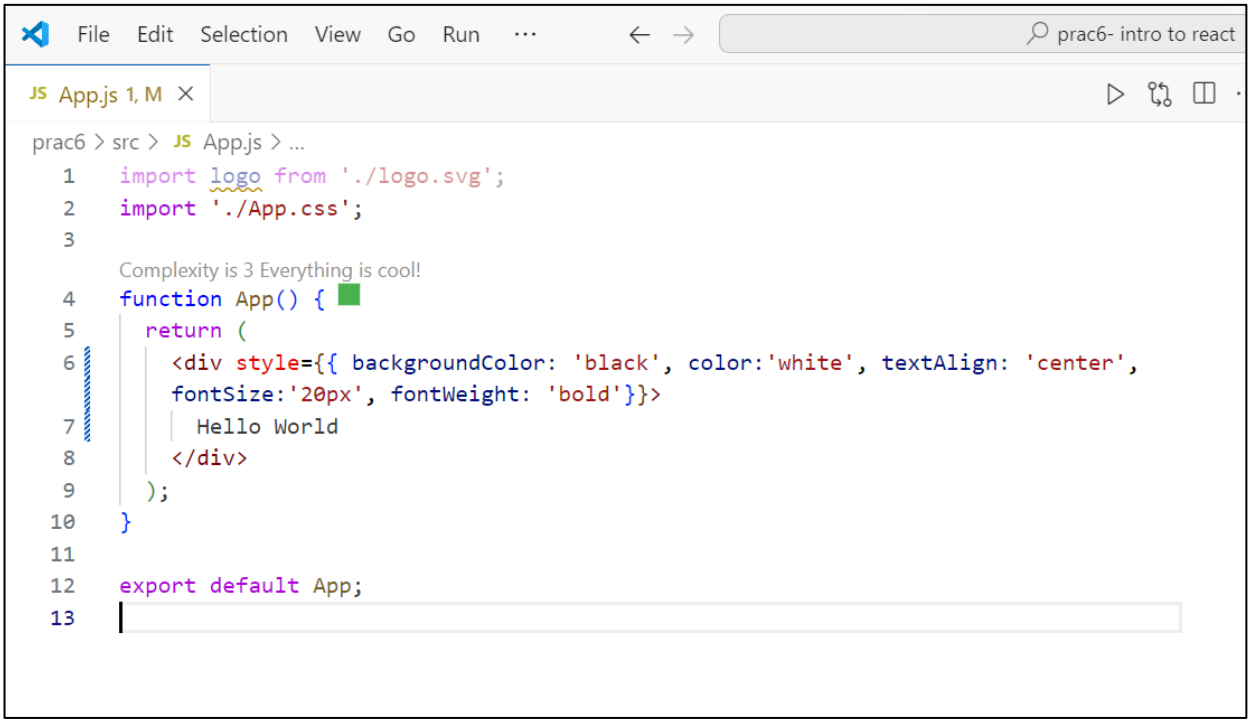
Install Node.js:

Check the **node version**, **npm version**, and **install React packages globally using npm**

```
PS A:\Semester 6\5. Web Technology 2\Lab\prac6- intro to re
act> node -v
v20.11.1
PS A:\Semester 6\5. Web Technology 2\Lab\prac6- intro to re
act> npm -v
10.2.4
PS A:\Semester 6\5. Web Technology 2\Lab\prac6- intro to re
act> npm i react -g

changed 3 packages in 2s
PS A:\Semester 6\5. Web Technology 2\Lab\prac6- intro to re
act>
```

```
Compiled successfully!

You can now view prac6 in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.163.210:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

The code presents a basic React component using JSX, rendering "Hello World" within a `<div>` element with specified inline styles.



Output of the code:

Discussions:

In this experiment, we installed Visual Studio Code, downloaded Node.js for React, configured the React framework using npm, understood React's folder structure, and developed a simple "Hello World Application" using React components and JSX syntax.