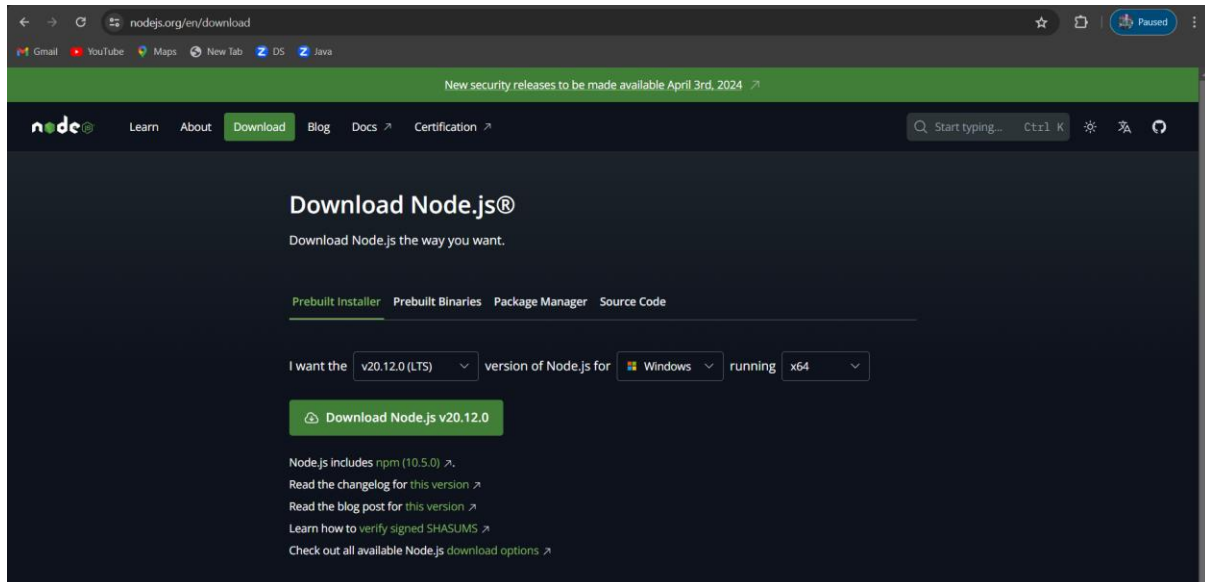


LAB EXPERIMENT : 6

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”.



```
C:\Users\AASHI SHAH>node -v
v20.11.1

C:\Users\AASHI SHAH>npm -v
10.2.4

C:\Users\AASHI SHAH>npm i react -g

changed 3 packages in 3s

C:\Users\AASHI SHAH>
```

```
D:\PDEU\SEM 6\WEB TECH LAB\21BIT269D\LAB 6>npx create-react-app lab-6

Creating a new React app in D:\PDEU\SEM 6\WEB TECH LAB\21BIT269D\LAB 6\lab-6.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

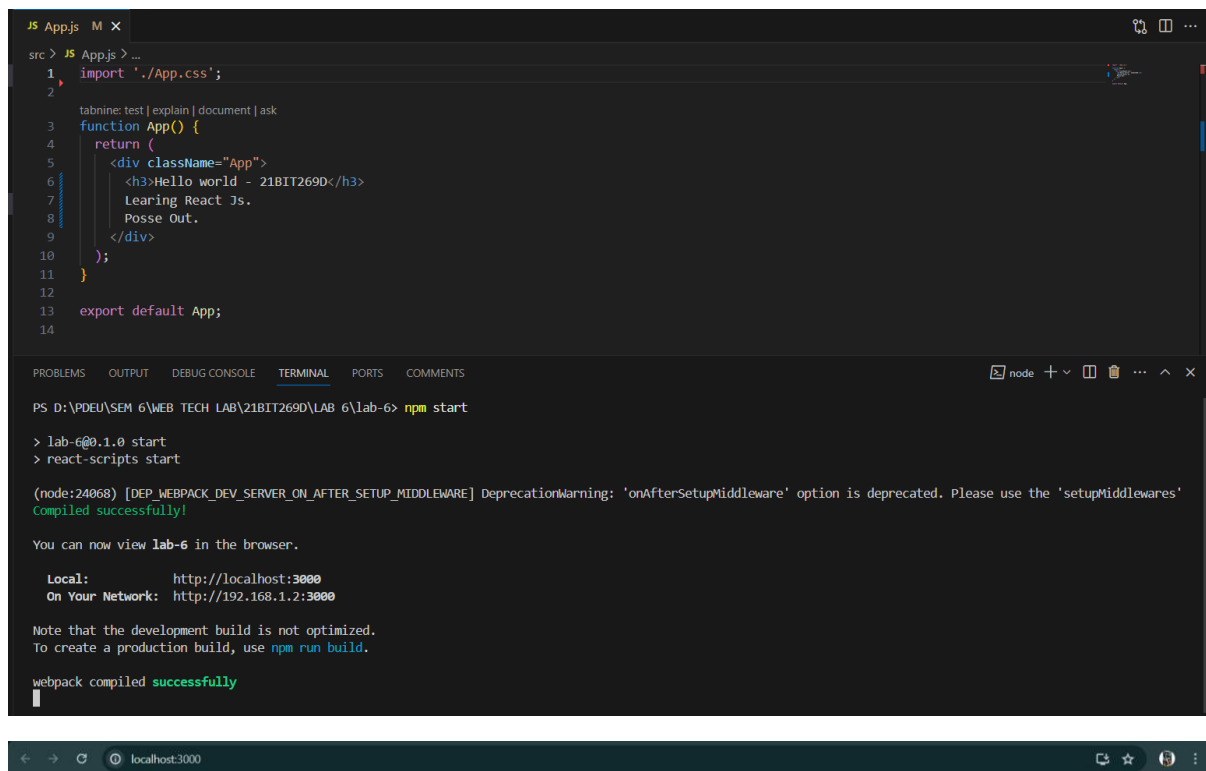
[██████████] - idealTree:tutils: sill placeDep ROOT tslib@2.6.2 OK for: camel-case@4.1.2 want: ^2.0.3
```

```
Happy hacking!

D:\PDEU\SEM 6\WEB TECH LAB\21BIT269D\LAB 6>cd lab-6

D:\PDEU\SEM 6\WEB TECH LAB\21BIT269D\LAB 6\lab-6>code .
```

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



The screenshot displays a code editor with a file named `App.js` and a terminal window below it. The code in `App.js` defines a function `App` that returns a JSX element. The JSX element consists of a `div` with the class `App` containing an `h3` element with the text "Hello world - 21BIT269D", followed by the text "Learning React Js." and "Posse Out." on separate lines. The terminal shows the command `npm start` being executed, which starts the development server. It displays a deprecation warning for the `onAfterSetupMiddleware` option and provides the local and network URLs for the application. The terminal also shows the message "webpack compiled successfully".

```
1 import './App.css';
2
3 function App() {
4   return (
5     <div className="App">
6       <h3>Hello world - 21BIT269D</h3>
7       Learning React Js.
8       Posse Out.
9     </div>
10  );
11 }
12
13 export default App;
```

```
PS D:\PDEU\SEM 6\WEB TECH LAB\21BIT269D\LAB 6\lab-6> npm start

> lab-6@0.1.0 start
> react-scripts start

(node:24068) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares'
compiled successfully!

You can now view lab-6 in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.2:3000

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

webpack compiled successfully
```

Discussions:

In this experiment, 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.