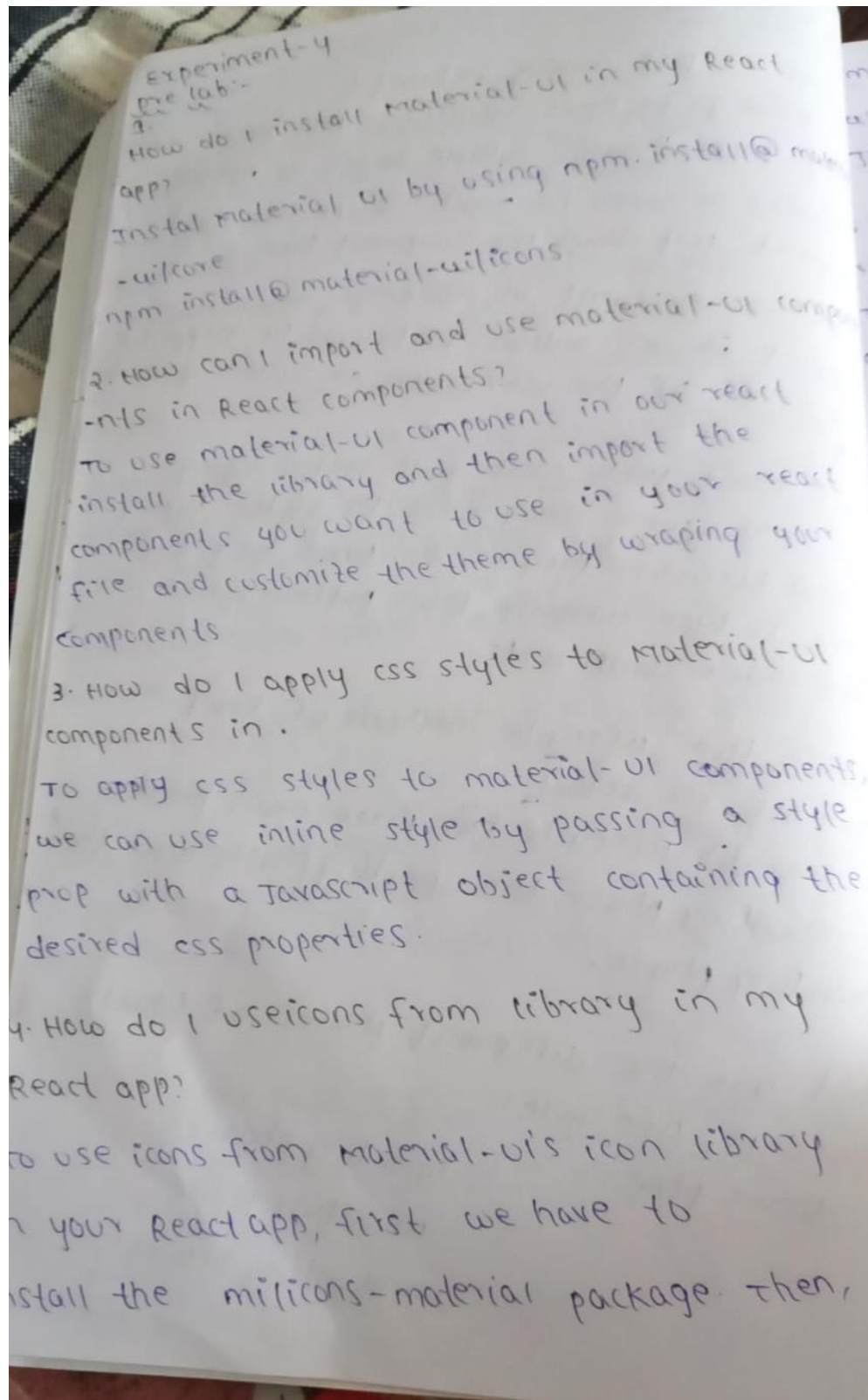
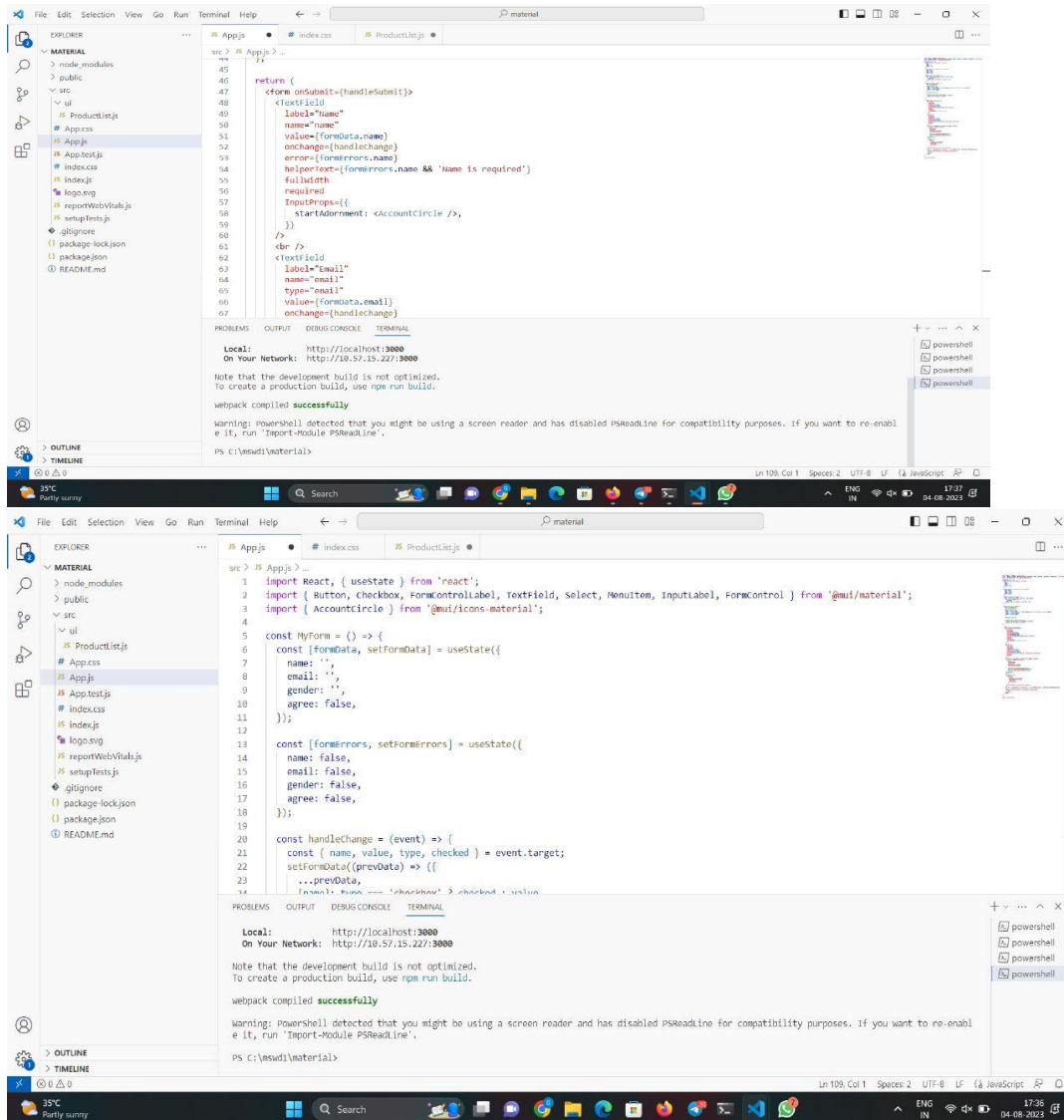


EXPERIMENT-4 WORKING OF MATERIAL UI



IN LAB EXPERIMENT-1

Create a simple React application with two routes: Home and About. Implement navigation links to switch between these routes using React Router.



OUTPUT:

The screenshot shows a web browser window with the title "React App" and the address bar displaying "localhost:3000". The browser's tab bar shows several open tabs, including "Inbox (70) - mailp...", "Gmail", "YouTube", "Maps", "WiFi", "KL University ERP", "Dashboard | Hacker...", "code chef", "hackerearth", "ki mail", "Tinker card", "leetcode", "codestudio", and "Codeforces".

The web application content is as follows:

User Information

Name *

Email *

Gender ▼

Hobbies

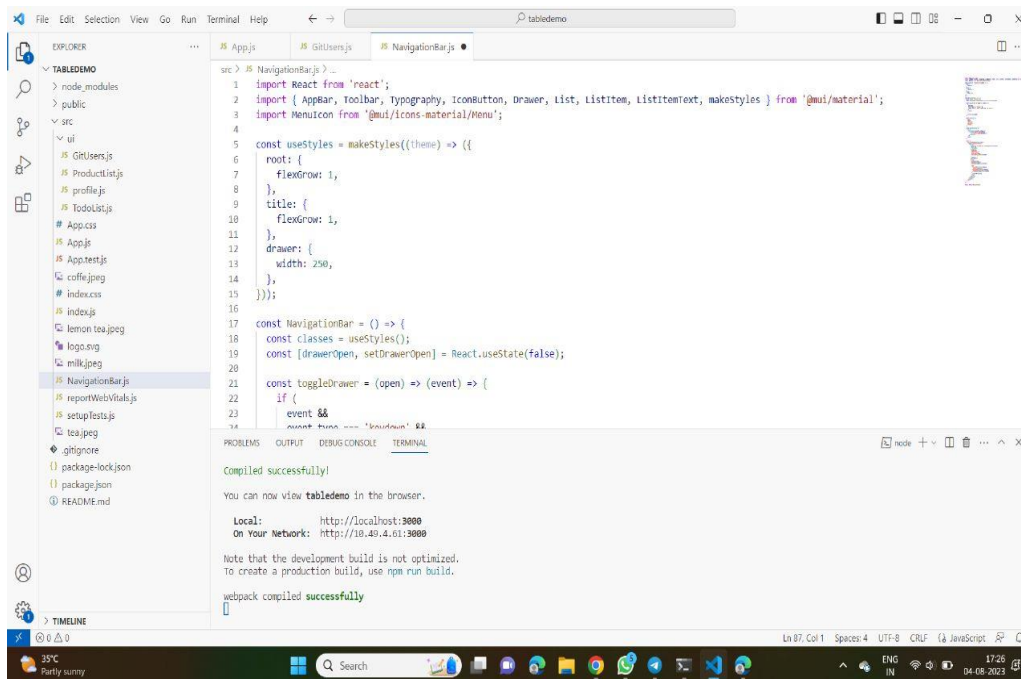
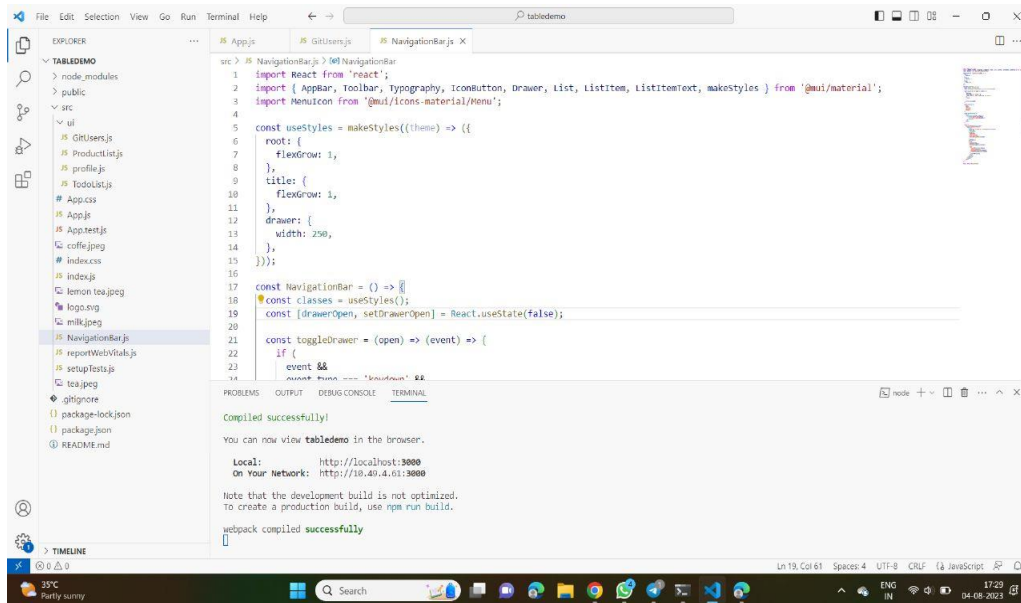
☐ Reading

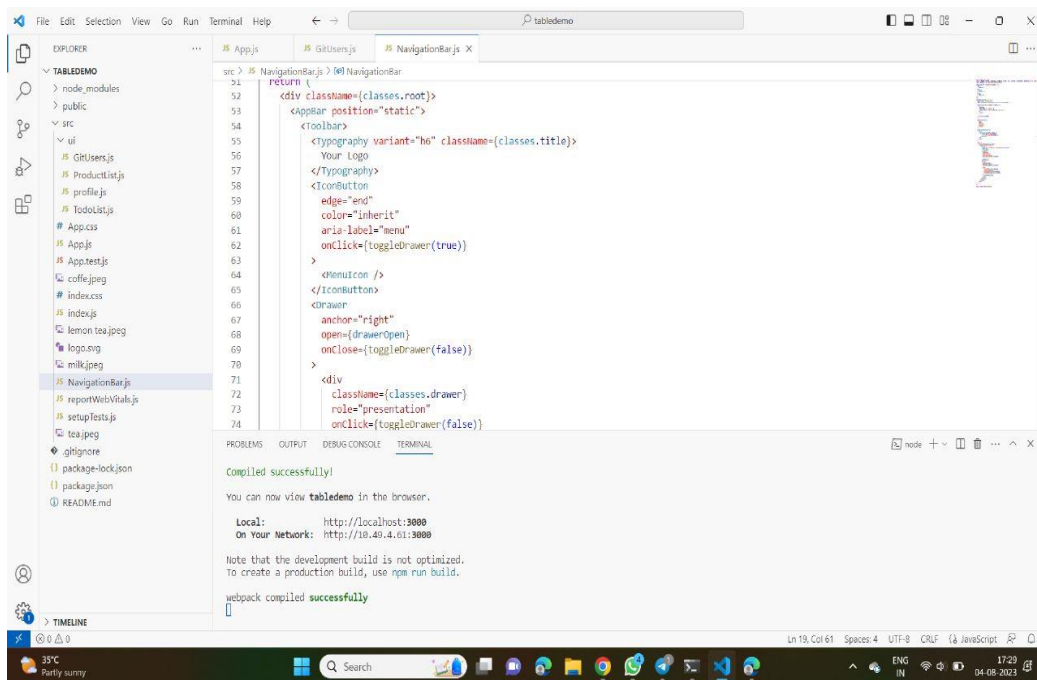
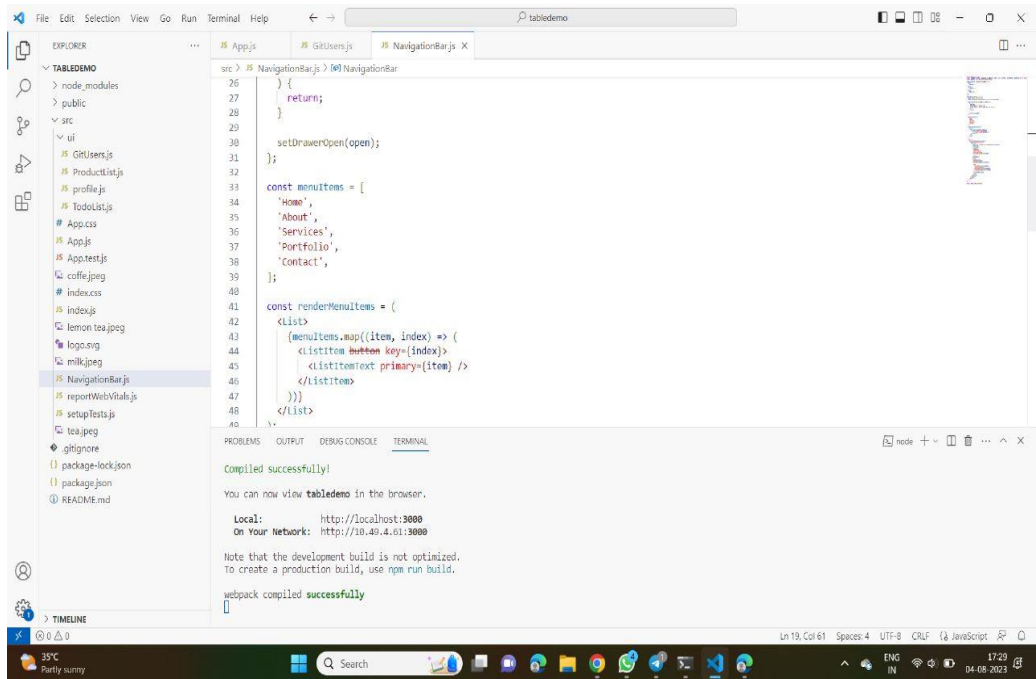
☐ Writing

☐ Coding

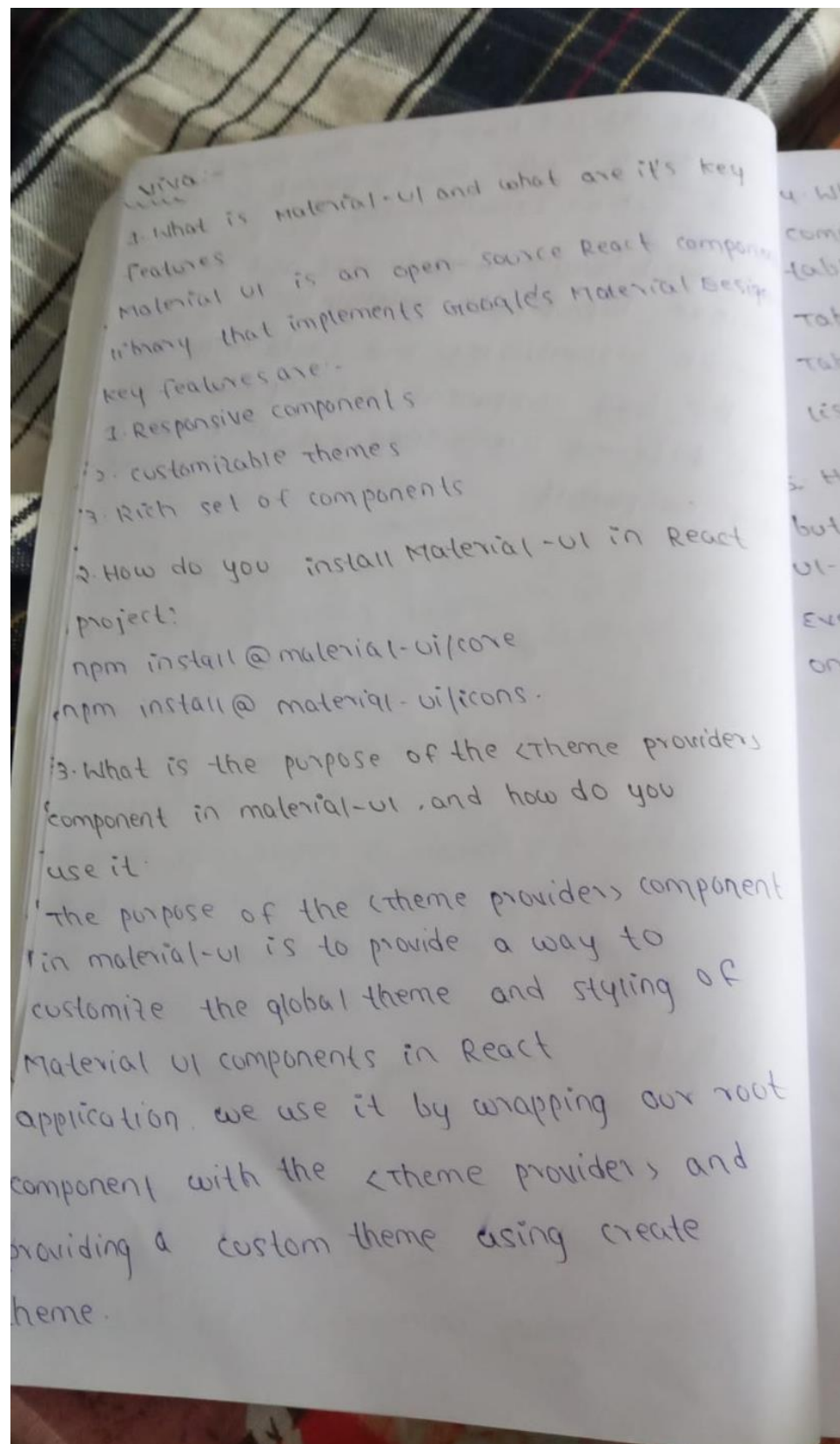
The Windows taskbar at the bottom shows the system clock as 21:26 on 02-08-2023, with a weather widget indicating 30°C and "Partly cloudy". The taskbar also contains icons for the Start menu, Search, and various background applications.

IN LAB EXPERIMENT-2





Sample VIVA-VOCE Questions (In-Lab):



4. What are some commonly used material-ui components for displaying data, such as tables and lists?

Table:- Table head, TableBody, TableRow and Table cell.

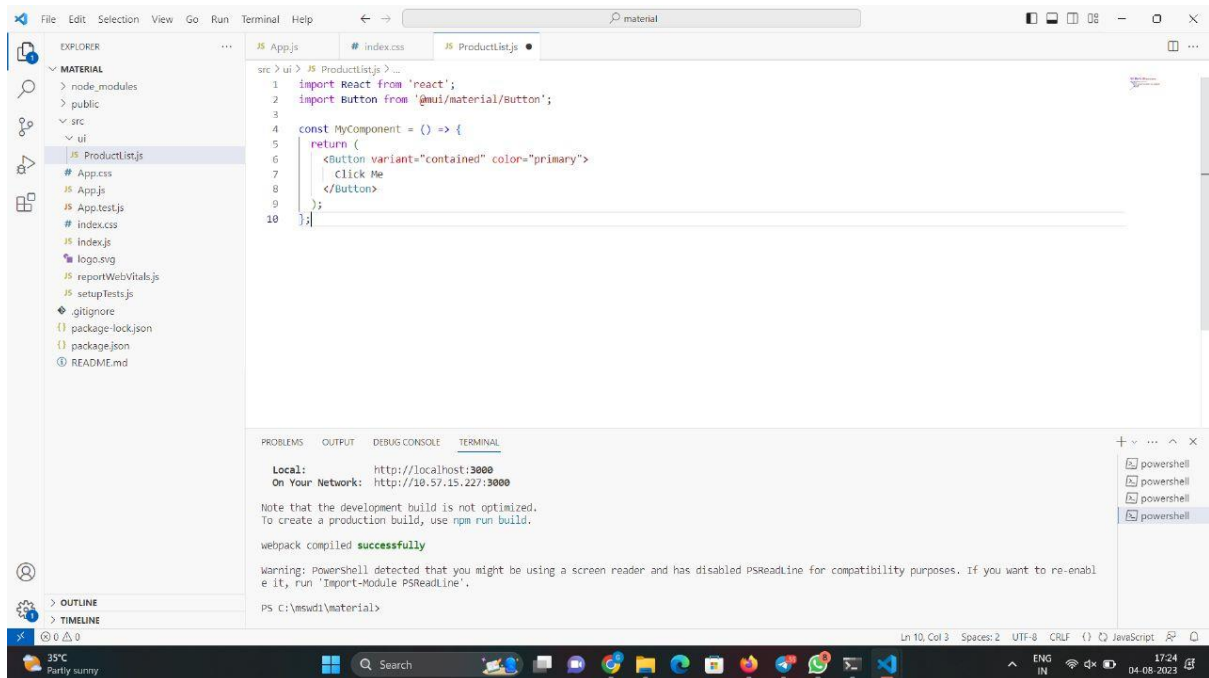
List:- listItemIcon, listItemText.

5. How do you handle user interaction, such as button clicks or menu selections using material ui-components?

Event handler functions for specific events like onclick, or onchange.

POST LAB: QUESTION:1

How can you create a dynamic route in React Router that accepts a parameter and renders different content based on that parameter?



The screenshot shows a VS Code editor with a project named 'material'. The Explorer panel on the left shows the file structure, including 'src' and 'ui' folders. The 'ProductList.js' file is selected in the 'ui' folder. The code in 'ProductList.js' is as follows:

```
src > ui > ProductList.js > ...
1 import React from 'react';
2 import Button from '@mui/material/button';
3
4 const MyComponent = () => {
5   return (
6     <Button variant="contained" color="primary">
7       Click Me
8     </Button>
9   );
10 }
```

The Output panel at the bottom shows the following messages:

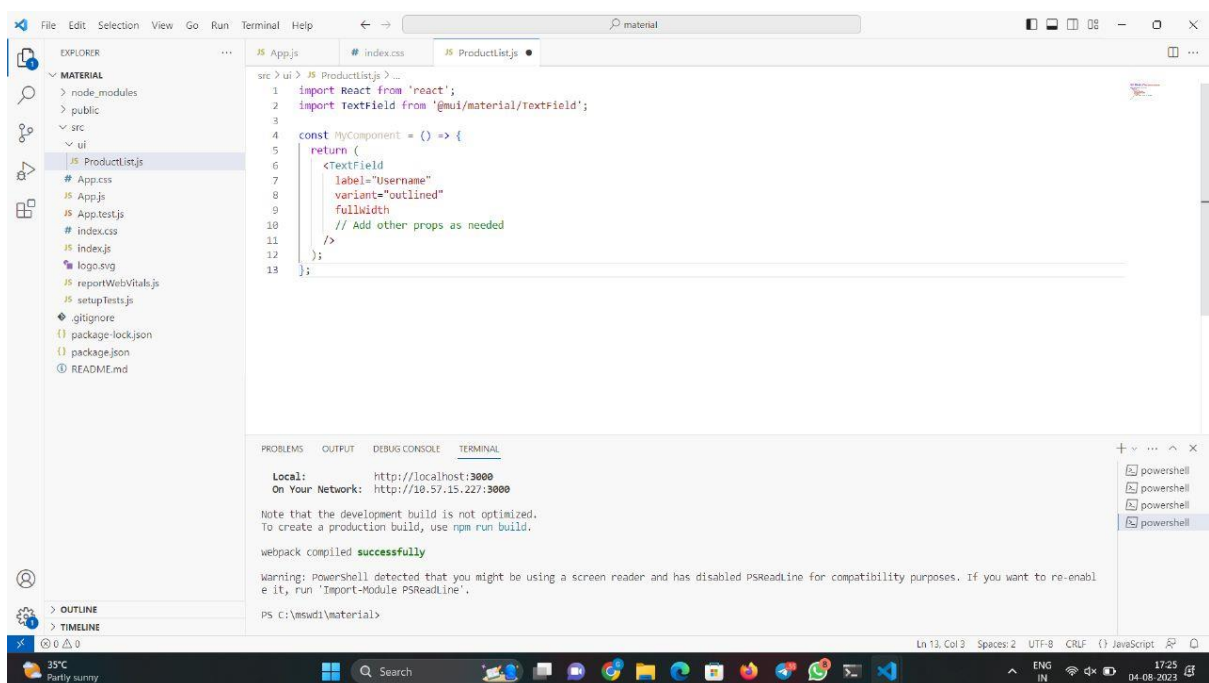
```
Local: http://localhost:3000
On Your Network: http://10.57.15.227:3000

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

webpack compiled successfully

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

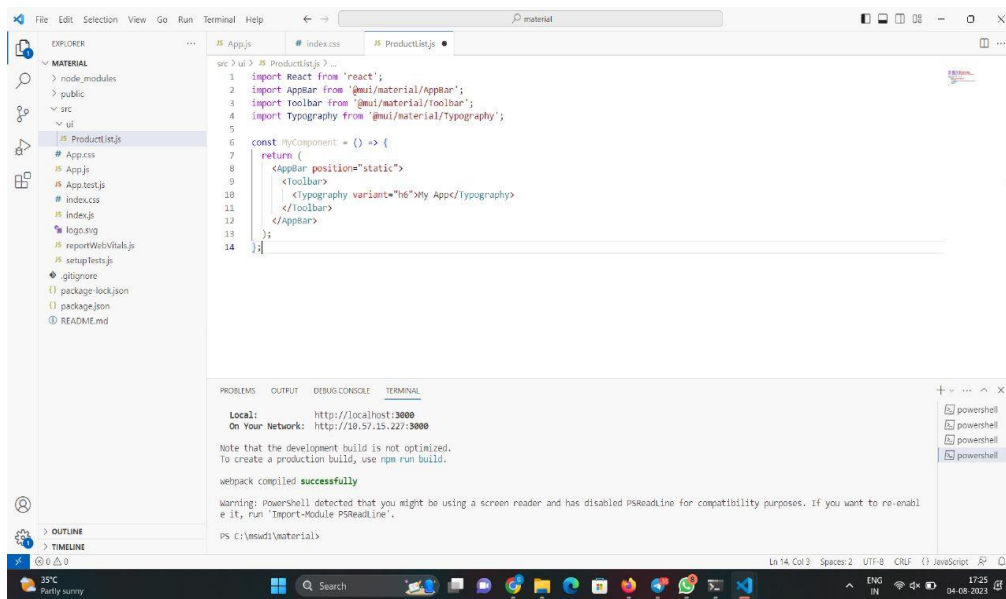
PS C:\msd1\material>
```



The screenshot shows the same VS Code editor with the 'material' project. The 'ProductList.js' file is still selected, but the code has been updated to use a 'TextField' component from '@mui/material/textfield'. The code is as follows:

```
src > ui > ProductList.js > ...
1 import React from 'react';
2 import TextField from '@mui/material/textfield';
3
4 const MyComponent = () => {
5   return (
6     <TextField
7       label="Username"
8       variant="outlined"
9       fullWidth
10     // Add other props as needed
11     />
12   );
13 }
```

The Output panel at the bottom shows the same messages as the previous screenshot, indicating a successful webpack compilation.



POST LAB: QUESTION:2

How can you implement nested routes in React Router to create a hierarchical navigation Structure.

