React State

What is React state?

State is a mutable data store that is unique to each React component. It can be used to store data that changes over time, such as the current user input, the selected item in a list, or the number of items in a cart.

Why is state required in React?

State is required in React because it allows components to maintain their own data and logic. This is in contrast to other frameworks, such as Angular, where all data is stored in a central store and components are updated by subscribing to changes in that store.

Steps to use state in react:

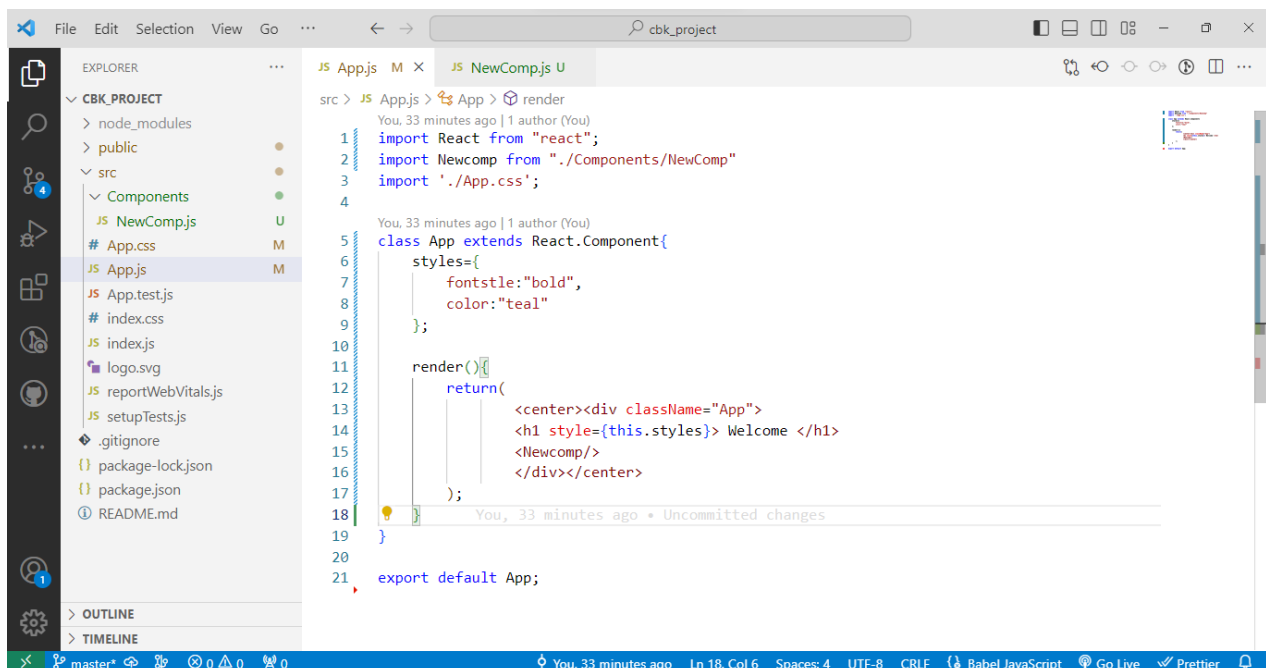Step 1:-Open visual Studio. Go to file and select open folder.

Step 2:-Open my-react-app.

Step 3:-Go to src and create a new folder. Give name as "NewComp.js"
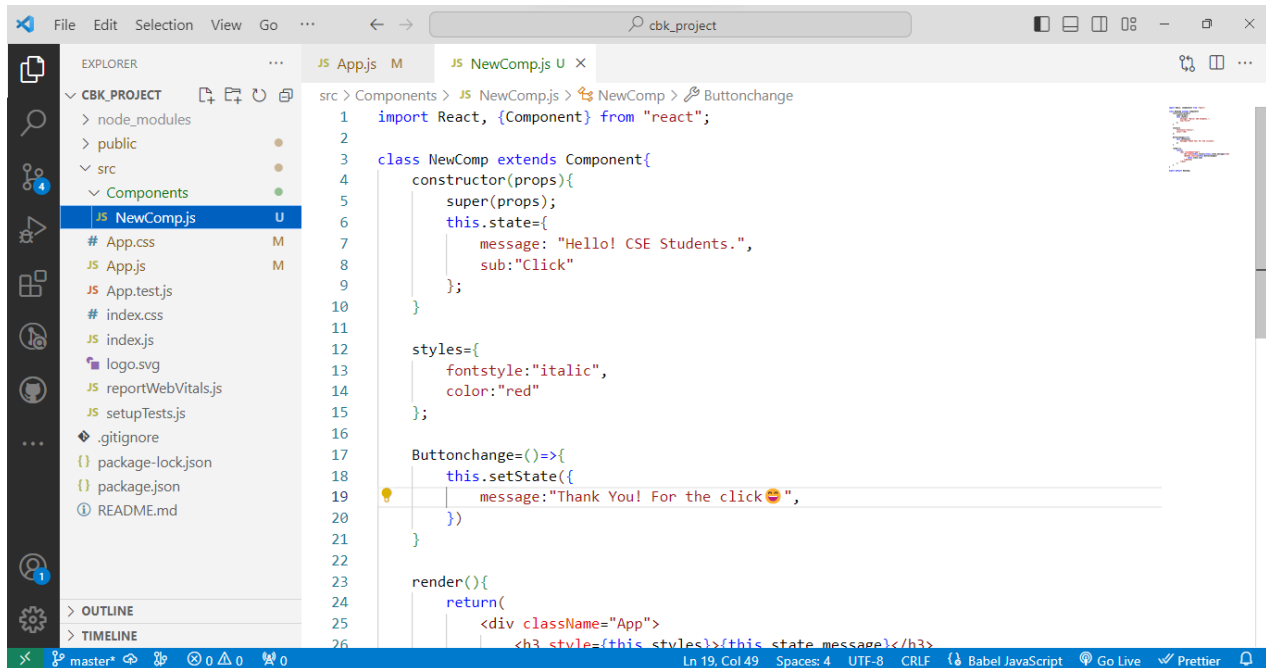
Step 4:-Then compile the "Newcomp.js" file in "App.js"

Step 5:-Save all files and execute "App.js" in new terminal type and run npm start. Step 6:-In a browser output will be displayed.
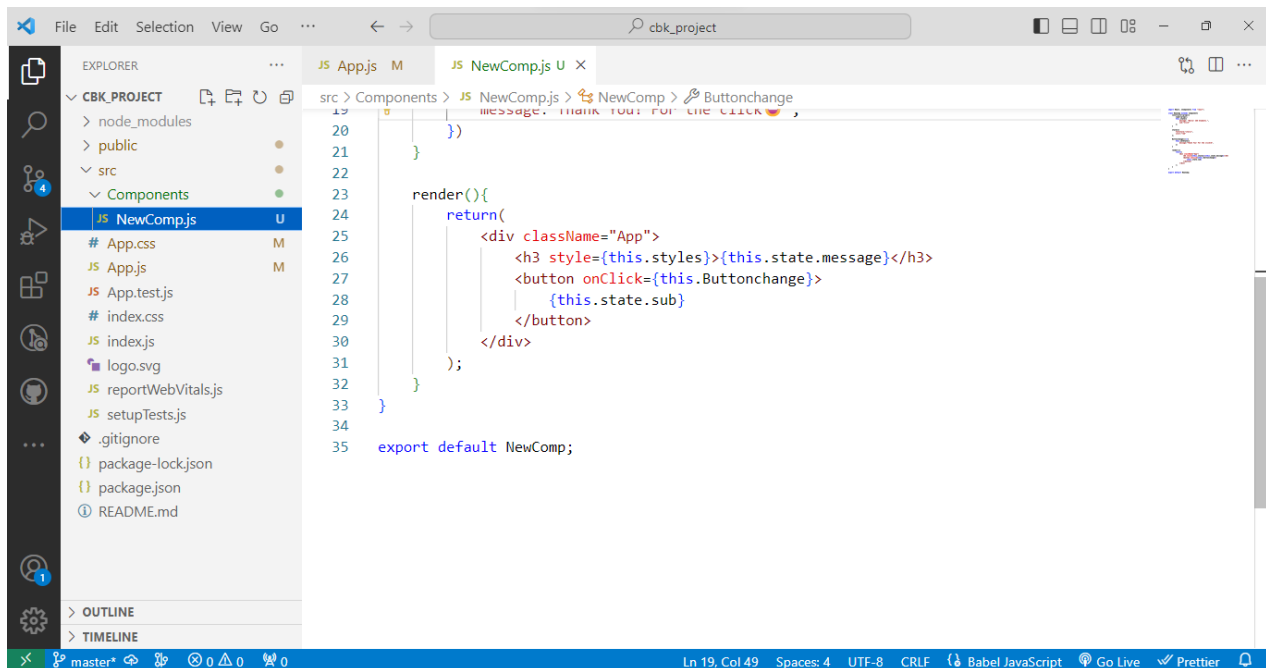
App.js

NewComp.js

```js
import React, {Component} from "react";

class NewComp extends Component{
    constructor(props){
        super(props);
        this.state={
            message: "Hello! CSE Students.",
            sub:"Click"
        };
    }

    styles={
        fontstyle:"italic",
        color:"red"
    };

    Buttonchange=()=>{
        this.setState({
            message:"Thank You! For the click😄",
        })
    }

    render(){
        return(
            <div className="App">
                <h3 style={this.styles}>{this.state.message}</h3>
```

```js
                message: "Thank You! For the click😄",
            })
        }

    render(){
        return(
            <div className="App">
                <h3 style={this.styles}>{this.state.message}</h3>
                <button onClick={this.Buttonchange}>
                    {this.state.sub}
                </button>
            </div>
        );
    }
}

export default NewComp;
```

Output:

- After clicking on the button: