React ToDoList Assignment

# Student Information

Name: Ranjeeb  
Assignment: #2  
Course: CSD 3103 - Full Stack JavaScript  
Task: Creating a React application which uses state and events

# Step 1: Creating React App

Create a new React app using the following command:

npx create-react-app ranjeeb\_assign2

Once the app is created, navigate into the project folder:  
cd ranjeeb\_assign2

# Step 2: Create TodoListXXX Component

Create a file named TodoList123.js inside the src folder. Replace '123' with the last three digits of your student number. The component will handle the ToDo list display and logic.

Sample Code:

import React, { useState } from 'react';  
  
function TodoList123() {  
 const [tasks, setTasks] = useState([]);  
 const [input, setInput] = useState('');  
  
 const addTask = () => {  
 if (input !== '') {  
 setTasks([...tasks, input]);  
 setInput('');  
 }  
 };  
  
 const removeTask = (index) => {  
 const newTasks = [...tasks];  
 newTasks.splice(index, 1);  
 setTasks(newTasks);  
 };  
  
 return (  
 <div>  
 <h2>My ToDo List</h2>  
 <input value={input} onChange={(e) => setInput(e.target.value)} />  
 <button onClick={addTask}>Add</button>  
 <ul>  
 {tasks.map((task, index) => (  
 <li key={index}>  
 {task} <button onClick={() => removeTask(index)}>Remove</button>  
 </li>  
 ))}  
 </ul>  
 </div>  
 );  
}  
  
export default TodoList123;

# Step 3: Use TodoList Component in App.js

In App.js, import and use the TodoList123 component like this:

import './App.css';  
import TodoList123 from './TodoList123';  
  
function App() {  
 return (  
 <div className="App">  
 <TodoList123 />  
 </div>  
 );  
}  
  
export default App;

# Step 4: Styling in App.css

Update App.css to apply basic styling to your application.

.App {  
 text-align: center;  
 font-family: Arial, sans-serif;  
}  
  
button {  
 margin-left: 10px;  
 background-color: lightblue;  
 border: none;  
 padding: 5px 10px;  
}

# Step 5: Screenshots

Take and paste full-screen screenshots of:

- Code in Visual Studio Code

- Application running in browser showing task add and delete features

# Conclusion

This ToDoList application demonstrates the use of React state and events. The code was written manually and the structure follows good component-based architecture.