LAB EXERCISE – 05 REACT BASED APP

Program :-

App.js

```
import React from "react";
import "./App.css";

function Todo({ todo, index, completeTodo, removeTodo }) {
 return (
  <div
   className="todo"
   style={{ textDecoration: todo.isCompleted ? "line-through" : "" }}
  >
   {todo.text}
   <div>
    <button onClick={() => completeTodo(index)}>Complete</button>
    <button onClick={() => removeTodo(index)}>x</button>
   </div>
  </div>
 );
}

function TodoForm({ addTodo }) {
 const [value, setValue] = React.useState("");

 const handleSubmit = e => {
  e.preventDefault();
  if (!value) return;
  addTodo(value);
  setValue("");
```

```jsx
  };

  return (
    <form onSubmit={handleSubmit}>
      <input
        type="text"
        className="input"
        value={value}
        onChange={e => setValue(e.target.value)}
      />
    </form>
  );
}

function App() {
  const [todos, setTodos] = React.useState([
    {
      text: "Have breakfast then go to university",
      isCompleted: false
    },
    {
      text: "Attend classes and take notes"
    },
    {
      text: "Go for lunch and come back to class",
      isCompleted: false
    },
    {
      text: "Meet friends and go for a walk",
      isCompleted: false
    },
    {
```

```
    text: "Come back to room and do laundry",
    isCompleted: false
  },
  {
    text: "Have dinner and go to bed",
    isCompleted: false
  }
]);

const addTodo = text => {
  const newTodos = [...todos, { text }];
  setTodos(newTodos);
};

const completeTodo = index => {
  const newTodos = [...todos];
  newTodos[index].isCompleted = true;
  setTodos(newTodos);
};

const removeTodo = index => {
  const newTodos = [...todos];
  newTodos.splice(index, 1);
  setTodos(newTodos);
};

return (
  <div className="app">
    <div className="todo-list">
      {todos.map((todo, index) => (
        <Todo
          key={index}
```

```
        index={index}

        todo={todo}

        completeTodo={completeTodo}

        removeTodo={removeTodo}

      />

    ))}

    <TodoForm addTodo={addTodo} />

  </div>

  </div>

 );

}


export default App;
```

Output :-