

1. Create a simple React component called Counter that displays a number and has two buttons: "Increment" and "Decrement." The number should start at 0 and change when the buttons are clicked. **[HARD]**
 - a. -Use state to manage the number.
 - b. -Pass the initial number as a prop to the Counter component.
2. Build a multi-page React application that includes two pages: "Home" and "About." **[HARD]**
 - a. Create a navigation bar with links to the "Home" and "About" pages.
 - b. Implement routing using a library like React Router.
 - c. Each page should have a unique URL and content(any).
3. Create a basic todo list application: (use useState()) **[MEDIUM]**
 - a. Build a component for adding, displaying, and deleting tasks.
 - b. Use state to manage the list of tasks.
 - c. Add a form for users to input new tasks.
 - d. Display the list of tasks and provide a button to remove them.
 - e. Add a counter for the total number of tasks.
4. Create two components**[EASY]**
ParentComponent
ChildComponent
 - a. ParentComponent passes prop as name to ChildComponent
 - b. ChildComponent Displays name e.g. " Hi <name>"
5. Print below array elements using map into the screen **[EASY]**
 - a. `const weekdays = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]`
6. Create two components **[EASY]**
ParentComponent
ChildComponent
 - a. ParentComponent passes prop as name to ChildComponent
 - b. ChildComponent Displays converting name to uppercase and print
 - c. E.g ParentComponent passes John
ChildComponent prints My name is JOHN
7. Implement useEffect hook and print all three lifecycle state **[EASY]**
 - a. E.g Inside mount
 - b. E.g Inside update
 - c. E.g Inside unmount
8. Print below array elements using map into the screen **[EASY]**
 - a. `const fruits = ["apple", "banana", "cherry", "bat"]`
 - b. Only print fruits it should remove bat and print it
9. Print below array elements using map into the screen **[EASY]**
 - a. `let fruits1 = ["apple", "banana"];`
 - b. `let fruits2 = ["cherry", "orange"];`

- c. Merge both fruits array and print it
10. Create a basic todo list application: (use useReducer()) **[HARD]**
- a. Build a component for adding, displaying, and deleting tasks.
 - b. Use state to manage the list of tasks.
 - c. Add a form for users to input new tasks.
 - d. Display the list of tasks and provide a button to remove them.
 - e. Add a counter for the total number of tasks.
11. Design login form which accepts username and password(Two text box) and submit button **[MEDIUM]**
- a. On submit button click it should validate username and password and console log if its valid
 - b. Validity check should be simple like username: Admin & password: Pass123
 - c. If any other credentials it should say unauthorized