**Theory Chapter 11**

**Q: Prop drilling**

**A:** Props is a great way to pass data between different components. But passing data via props become inconvenient when props has to pass down to tree or same props has to used by many components.SO if one tries to lift the state up to the common ancestor , so it might happen that the child which is using the data is very far away from the common ancestor , so by passing data using props in that case can cause a problem called prop drilling

**Q: State lifting**

**A:** State sharing can be accomplished by lifting the state to the common ancestor of the component in react. if child component’s state is being handled by parent component then it is state lifting.

**Uncontrolled Component:** A component is said to be uncontrolled when it has some local state and its state is not influenced by the parent.

**Controlled component: When** the important information is controlled by props rather than its local state. When react is controlling the state of input field. i.e The component which is responsible for rendering the form is also responsible for the user input in that form.

**Q: Context provider and consumer**

**A:** context provides a way to pass props/data down the component tree without manually passing the props at every level . Eg for globally used data across application is UI theme , preferred language , Authenticated user. When one create context using createContext it creates a context object

Every context provider comes with a React provider component that allows consuming components to subscribe to the changes in the context

Provider accepts a value which is passed to the consuming components which are descendants to the provider. On can nest provider so as to override the value deeper in the tree.

When the provider value change all the components who are consuming the value re-render

Before useContext there is an older way of consuming the context value is by using the consumer

MyCOntext.displayName =’Test’ Is basically used to display the name is DevTools

**Q: If you do not pass value in provider , does it takes the default value?**

**A:**  If one does not pass any value to the provider than one cannot use the default value in any component using useContext. If one has to use the default value the use it directly .ie without using any provider. Even when you pass undefined in the value of provider that does not lead to consumption of default value