**Lecture 1: what is react and how it works ?**

Why we should learn react ?

React is javascript library and used for user interface.

User interface or frontend : where user interact with event click, etc.

React works with frontend or making user interface.

**React:** generate html for react

**React-dom:** render react code into browser dom.

React package run on both browser and android.

React code run in browser with help of the ‘react-dom’ package and react code we can use in android with help of the ‘react-native’.

ReactDOM.render() receive two parameter. 1st is what to print or render and 2nd is where to render or print. ReactDOM.render(‘Hello word’, container);

React library gives us some function to create react element.

**create react element** using react.createElement(“html element”, dataWantToPass, “content”);

we can create nested element. Just similarly use react.createElement() into dataWantToPass position.

To create react element using above way is very hard. So we use JSX method. We can easily create react element.

Const div = React.createElement(“div”);

div.InnerHTML = “this is div element”;

Babel transpile the react code into pure vanilla JavaScript code.

In react each component is self contained functionality component. Each component has different world. For each component, react manage different state.

We can reuse each component. Each component is different from each other.