***Creating React Project:***

1. **npx create-react-app (appname)**
2. If it doesn’t work run **npm install –g create react-app** and the run first command
3. Defualt port will be 3000
4. React is a Javascript library , it is not a framework.
5. JSX => Syntax extension to JavaScript
6. That is not compulsory to use only JSX => But using JSX is somewhat easy and useful.
7. Components => Small Pieces of UI
8. Two Types => Functional and Class Component.
9. Functional Component => Accepts Props as Argument and return react elements.
10. Class Component => extends from React.Component and it has render function which returns react element.
11. Functional Comonents => Stateless Component.
12. Hooks cannot use in Functional Component => Because hooks are from React.Component class.
13. StrictMode is a React Developer Tool primarily used for **highlighting possible problems in a web application**
14. Packages like bootstrap and font awesome are installed and imported in index.js file to use inside the components
15. We can use custom font from google font online , either through **link or by import**
16. Yarn => will install packages **parallel(Fast)** and NPM will install **serial (Slow)**
17. **YARN** => Yet Another Resource Negotitor
18. **Axios =>** Library to make http request
19. **Axios is alternative for https**

***Git Commands:***

1. **git init** to instilize git inside your project folder
2. git status => to see the status of files and folders

***Node Js:***

1. **npx express-generator (appname)** to create the node API
2. After the app created run **npm install to** install the dependicies like exprexx and etc.
3. MongoDB Driver **=>** It is a low level and its is a native to connect with the mongoDB
4. Mongoose => Mongoose is built on the native mongoDB driver (Example => Hibernate in Java) It is like a ODM => Object Document Mapping) (It is Library).
5. <https://cloudnweb.dev/2019/04/mongoose-connection-in-express-js/>
6. Nodemon => Reload the server when there is any change
7. Nodemon => should be installed globally
8. Mongoose like => hibernate , MongoDB Driver => JDBC Template