**React - Component, state, Props**

**1)What is React Js?**

React is a free and open-source front-end JavaScript library for building user interfaces based on components. React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js.

**2)What is NPM in React Js?**

NPM is Node Package Manager stems from when npm first was created as a package manager for Node. js. Which helps to manage the node packages for you application.

**3)What is Role of Node Js in react Js?**

NodeJS is a framework of JavaScript which is mainly used for working with the backend of our application or building the backend using JavaScript, whereas ReactJS is a JavaScript front-end library. It is mainly used for building the user interface or the frontend of our application.

**4)What is CLI command In React Js?**

React has its own command-line interface (CLI) commands. However, these CLI commands are currently only used to create a passable version of a react application using the command line.

**5) What is Components in React Js?**

Components are independent and reusable bits of code. They serve the same purpose as JavaScript functions, but work in isolation and return HTML.

Components come in two types:- 1) **Class components** and 2) **Function components**

**Class Component**

A class component must include the extends React.Component statement. This statement creates an inheritance to React.Component, and gives your component access to React.Component's functions.

The component also requires a render() method, this method returns HTML.

Ex:

class Classcompo extends React.Component {

render() {

return <h2>HELLO</h2>;

}

}

**Function Component**

A Function component also returns HTML, and behaves much the same way as a Class component, but Function components can be written using much less code, are easier to understand, and will be preferred in this tutorial.

Ex:

function Funcompo() {

return <h2>HELLO</h2>;

}

**6)What is Header and Content Components in React Js?**

Headers are compositions that extend standard navbar functionalities. They contain additional components like a jumbotron, sub-navbar, or image covers which serve as a containers for extra navigation elements - usually links, forms, or call-to-action buttons.

**7)How to install React Js on Windows, Linux Operating System? How to install NPM and How to check version of NPM?**

* Install Node.js installer for windows.
* Open command prompt  to check whether it is completely installed or not type the command
* Now in the terminal run the below command:
* npm install -g create-react-app
* create-react-app --version
* create-react-app reactfirst YOUR\_APP\_NAME
* To start your app run the below command :
* npm start

**8) How to check version of React Js?**

npx create-react-app name\_of\_the\_app

npm view react version

**9) How to change in components of React Js?**

setState() setState() enqueues changes to the component state and tells React that this component and its children need to be re-rendered with the updated state. This is the primary method you use to update the user interface in response to event handlers and server responses.