React

1. What is Read? Sol: React is a frontend and open-source JavaScript library which is useful in developing user interfaces specifically for applications with a single page. It is helpful in building complex and reusable user interface (VI) components of mobile and web applications.

2. What are the advantages of using React?

Sol: * Use of Virtual DOM to improve efficiency: React uses virtual DOM to render the view. As the name suggests, virtual DOM is a virtual represe-- ntation of the real DOM. Each time the data charges in a react app, a new virtual DOM gets created. Creating a virtual DOM'is much faster than rendering the UI inside the brown. Therefore, with the use of virtual DOM, the efficiency of the app improves.

- * Gentle learning curve: Read has a gentle learning curve when compared to frameworks like Angular. Anyone with little knowledge of javasript can start building web applications using Read.
 - * SEO friendly: Read facilitates a developer to develop on engaging user interface that can be easily narigated in various search engines
- 3. What are the biggest limitations of Read?
- Solt * Read is just a library. It is not a complete framework. * It has a huge library which takes time to understand * React uses inline templating and JSX, which may be difficult as

4. What is JSX?

a barrier.

Soli JSX stands for Jova Script XML. It is a React extension which allows writing Java Script code that looks similar to HTML. It makes LITH file easy to understand. The JSX file makes the React application robust and boosts its performance. ISX provides you to write XML-like syntax in the same file where you write Davascript ook, and then preprocessor transform these expression into actual Javand

- 5. Why we use JSX?
- Sol: Browsen cannot read JSX directly because they can understord Java Script objects, and JSX is not a regular Java Script Object. Thus we need to transform the JSX fleints a Java Script object using transpilex like Babel.
 - 6. Explain the purpose of render () in Read
- Sol: It is mandatory for each React component to have a render() function Render function is used to return the HTML which you want to display in a component. If you need to rendered more than one HTML element, you need to grouped together inside single endosing tag such as <div>, <form>, <group>, etc.
 - 7. What is Props?
- Soli Props stand for "Proporties" in Read. They are read-only input to components. Props are an object which store the value of attributes of a tag and work similar to the HTHL attributes. Props are immutable so we cannot modify the props from inside the component. Inside the components, we can add attributes called props.
 - 8. What is a state in Read?
- Sol: The state is an updatable structure which holds the data and information about the component. It may be changed over the lifetime of the component in response to user action or system event. It is the heart of the react component which determined the behavior of the component and how it will render.