React JS Training Content day - 4

1. What is props in React JS Component ?

Ans :

props are used to pass data from a parent component to a child component in React. Data from props is read-only, and cannot be modified in child component (component in which props is received). We can pass static or dynamic data using variable to props in parent component.

example : <Display title = "React Display" />

Parent Component : App.js

```
import React from 'react';
import Display from './Display';
function App() {

  return (
   <>
   <Display title ="Learning React"/>
   </>
  );
}
export default App;
```

Child Component : Display.js
```
import React from 'react';
function Display(props)
{
   return(
     <>
       <div>Props : {props.title}</div>
     </>
   )
}

export default Display;
```

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2. What is difference between props and state?

Ans : Props are used to pass data from parent component to child component. The state is a local data storage can be access within component.

3. What is state in React JS Component ?

Ans : React components has a built-in state object which is used to store data. this object can be access within component. It is possible in class component only. When any changes happen in the state object, render method is automatically triggered and It update content on User Interface. state is declare in constructor. Any updation can be made using setState method.

```
import React, { Component } from 'react';
class Sample extends Component {
  constructor() {
   super();
   this.state = {sampleKey:"sample state data"};
  }

  render() {
   return (
    <div>
      <h1>Hey, React Test !</h1>
      <h2>Sample State Data  : {this.state.sampleKey}</h2>
    </div>
   );
  }
}
 export default Sample;
```

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Assignment for state

1. Create a component named Employee
2. Create a Emp Object in state having field name EmpId, EmpName,Salary
3. Display in render method
4. Display every field in separate paragraph.

Assignment for props

5. Create a parent component named User
6. Create a child component named Userdetails
7. Pass a property name userRole and Value Admin
8. Read property in child component and display in render method