State

State is similar to props, but it is private and fully controlled by the component. We can create state only in class component. It is possible to update the state/Modify the state.

There are two way to initialize state in React Component :-

- Directly inside class
- Inside the constructor

<u>Directly inside class</u>

```
class Student extends Component {
  // States  - Here it is a class property
state = {
    name: "Rahul",
    prop1: this.props.prop1
  }
  render() {


  }
}
```

Note -

The state property is referred as state.

This is a class instance property.

Inside the Constructor

```
class Student extends Component {
 constructor(props) {
   // It is required to call the parent class constructor
   super(props);

   // States
   this.state = {
    name: "Rahul",
    prop1: this.props.prop1
   }
 }
 render() {
 }
}
```

- When the component class is created, the constructor is the first method called, so it's the right place to add state.
- The class instance has already been created in memory, so you can use *this* to set properties on it.
- When we write a constructor, make sure to call the parent class' constructor by super(props)
- When you call super with props. React will make props available across the component through this.props