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<i>Practical No.</i>	<i>4</i>
<i>Practical Aim:</i>	<i>Practical Aim:</i> <i>Write a Program to demonstrate the working of Props and State in Functional and Class Components in the React application.</i>
<i>Section & Batch:</i>	<i>A3</i>

Code:

To demonstrate props

```
import React from 'react'
export default function Students(props) {
  return (
    <div><div>
      <h1>This is the use of props in react js</h1>
      <center>
        <table border={5}>
          <tbody>
            <tr>
              <th>Name : </th>
              <th>{props.name}</th>
            </tr>
            <tr>
              <th>Branch : </th>
              <th>{props.branch}</th>
            </tr>
            <tr>
              <th>Year : </th>
              <th>{props.year}</th>
            </tr>
            <tr>
              <th>Image : </th>
              <th><img src = {props.image} alt="" /></th>
            </tr>
          </tbody>
        </table>
      </center>
    </div></div>
  )
}
```

```
    </table></center></div></div>
  )
}
```

```
import './App.css';
import Students from './components/Students';
import Counter from './components/counter';
import img from './images/download (1).jpg';

function App() {
  let me = {
    position : "absolute",
    margin : "5% 0 0 25%",
  }
  return (
    <div style={me}>
      { /* <Counter name = "nimje"/> */ }
      <Students name = "sujal" branch = "cse" year = "1st" image = {img} />
    </div>
  );
}
export default App;
```

Output :

This is the use of props in react js

Name :	sujal
Branch :	cse
Year :	1st
Image :	

*To demonstrate state in react***Code :**

```
import React, { Component } from 'react'

export default class Counter extends Component {

  constructor(props){
    super(props);
  }

  state = {count : "suja1"}

  onIncreament(){
    this.state.count += " " + this.props.name;

    this.setState(
      {
        count : this.state.count
      }
    )
    console.log(this.state.count)
  }

  render() {
    let style1 = {
      boxShadow: "0 4px 8px 0 rgba(0,0,0,0.2)",
      backgroundColor : "snow",
      color : "black",
      textAlign : "center",
      padding : "10px",
      margin : "20px",
      border : "none",
      borderRadius : "10px"
    }

    let style2 = {
      padding : "10px",
      margin : "0",
      backgroundColor : "green",
      borderRadius : "10px",
      color : "white",
      fontSize : "15px",
    }

    return (
```

```
    <div style={style1}>
      <h1>Name = {this.state.count}</h1>
      <button style={style2} onClick = { ()=>
this.onIncreament()}>Increament</button>
    </div>
  )
}
}
```

```
import './App.css';
import Students from './components/Students';
import Counter from './components/counter';
import img from "./images/download (1).jpg";

function App() {

  let me = {
    position : "absolute",
    margin : "5% 0 0 25%",
  }

  return (
    <div style={me}>
      <Counter name = "nimje"/>
      { /* <Students name = "sujal" branch = "cse" year = "1st" image = {img} />
*/}
    </div>
  );
}

export default App;
```

output :

Name = sujal

Increment

Name = sujal nimje

Increment

Name = sujal nimje nimje nimje nimje nimje

Increment

And so on updating if you keep clicking on the increment button.....

Conclusion: *with these practical I learn about use of props and state in react application.*