CHAPTER 5
STATE

5.1 USING STATE IN CLASS COMPONENT :

React components has a built-in **state** object. The state object is where you store property values that belongs to the component. When the state object changes, the component re-renders.

The state object is initialized in the constructor:

Create dir : -> /src/Components/Class/ClassState.js

GitHub url : https://github.com/ashok-FD/new-app/tree/State

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

class ClassState extends Component {
   constructor(props) {
      super(props);
      this.state = {
         value: "This is class state",
      };
    }



   render() {
      return (
         <div>
         <p style={{textDecoration:'underline'}}>ClassState</p>
         <p>{this.state.value}</p>
         </div>
      )
   }
}

export default ClassState
```

4.2 USING STATE IN FUNCTIONAL COMPONENTS :

Create dir : -> /src/Components/*Function*/FunctionState.js

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

function FunctionState() {
   const [value,setValue] = useState("This is Function State")


   return (
      <div>
         <p style={{textDecoration:'underline'}}>FunctionState</p>
         <p>{value}</p>
      </div>
   )
}

export default FunctionState
```

Ref:

https://www.w3schools.com/react/react_state.asp
https://reactjs.org/docs/state-and-lifecycle.html

4.3 SETSTATE IN CLASS COMPONENT :

SetState (or) changing the state object, To change a value in the same object, use the **this.setState()** method. When a value in the state object changes, the component will re-render, meaning that output will change according to the new values.

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

class ClassState extends Component {
   constructor(props) {
      super(props);
      this.state = {
         value: "This is class state",
      };
      this.stateChange = this.stateChange.bind(this);
     }

     stateChange(){
        this.setState({value:`This is class state value: $
{Math.floor(Math.random()*100)}`})
     }

   render() {
      return (
         <div>
         <p style={{textDecoration:'underline'}}>ClassState</p>
         <p>{this.state.value}</p>
         <button onClick={this.stateChange}>Change Class
State</button>
         </div>
      )
   }
}

export default ClassState
```

4.3 SETSTATE IN FUNCTIONAL COMPONENT :

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

function FunctionState() {
   const [value,setValue] = useState("This is Function State")

   const stateChange = () => {
      setValue(`This is class state value: $
{Math.floor(Math.random()*100)}`);
   }

   return (
      <div>
         <p style={{textDecoration:'underline'}}>FunctionState</p>
         <p>{value}</p>
         <button onClick={stateChange}>Change Function
State</button>
      </div>
   )
}

export default FunctionState
```

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