ASSIGNMENT -3:

<div align="center">

"STATE CLASS"

</div>

CODING:

Boolean:

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

class BooleanStateClassComponent extends Component {

  constructor(props) {

    super(props);

// Initialize state with a boolean value

    this.state = {

      isToggled: false,

    };

 // Bind event handler method if needed

    this.handleToggleClick = this.handleToggleClick.bind(this);

  }

 // Event handler method to toggle the boolean value

  handleToggleClick() {

    // Update state by toggling the boolean value

    this.setState((prevState) => ({

      isToggled: !prevState.isToggled,
```

```jsx
    }));
  }
  render() {
    return (
      <div>
        <p>Toggle State: {this.state.isToggled ? 'True' : 'False'}</p>
        <button onClick={this.handleToggleClick}>Toggle</button>
      </div>
    );
  }
}
export default BooleanStateClassComponent
```

State class using form:

```jsx
import React, { Component } from 'react';
class FormStateClassComponent extends Component {
  constructor(props) {
    super(props);
// Initialize state with form fields
    this.state = {
      firstName: '',
      lastName: '',
      email: '',
```

```
  };
  // Bind event handler methods if needed
    this.handleInputChange = this.handleInputChange.bind(this);
    this.handleSubmit = this.handleSubmit.bind(this);
  }
// Event handler method to update state on input change
  handleInputChange(event) {
    const { name, value } = event.target;
// Update state with the new input value
    this.setState({
      [name]: value,
    });
  }
// Event handler method for form submission
  handleSubmit(event) {
    // Prevent the default form submission behavior
    event.preventDefault();
// Perform actions with form data (in this case, just logging to the console)
    console.log('Form submitted with state:', this.state);
  }
  render() {
    return (
```

```jsx
<div>
  <form onSubmit={this.handleSubmit}>
    <label>
      First Name:
      <input
        type="text"
        name="firstName"
        value={this.state.firstName}
        onChange={this.handleInputChange}
      />
    </label>
    <br />
    <label>
      Last Name:
      <input
        type="text"
        name="lastName"
        value={this.state.lastName}
        onChange={this.handleInputChange}
      />
    </label>
    <br />
```

```jsx
      <label>

        Email:

        <input

          type="email"

          name="email"

          value={this.state.email}

          onChange={this.handleInputChange}

        />

      </label>

      <br />

      <button type="submit">Submit</button>

    </form>

  </div>

  );

 }

}
export default FormStateClassComponent;
```

STATE CLASS USING STRING:

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

class StringStateClassComponent extends Component {

 constructor(props) {
```

```
    super(props);

// Initialize state with a string value

  this.state = {

    message: 'Hello, React!',

  };

 // Bind event handler methods if needed

  this.handleInputChange = this.handleInputChange.bind(this);

 }

 // Event handler method to update state on input change

 handleInputChange(event) {

   // Update state with the new input value

   this.setState({

     message: event.target.value,

   });

 }

render() {

  return (

   <div>

    <label>

      Type a message:

      <input

        type="text"
```

```
            value={this.state.message}

            onChange={this.handleInputChange}

          />

        </label>

        <p>Current Message: {this.state.message}</p>

      </div>

    );

  }

}

export default StringStateClassComponent;
```

These are the state class examples using form,Boolean and string.