Building Blocks of React JS Assignment Answers

Assignment 1: JSX

```
// App.js
import React from 'react';

const JSXAssignment = () => {
  return (
    <div className="assignment-container">
      <p>This is a simple React component using JSX.</p>
    </div>
  );
};

export default JSXAssignment;
```

Assignment 2: Functional Components

```
// Greeting.js
import React from 'react';

const Greeting = (props) => {
  return <p>Hello, {props.name}!</p>;
};

export default Greeting;
```

Assignment 3: Class Components

```javascript
// Counter.js
import React, { Component } from 'react';
class Counter extends Component {
  constructor() {
    super();
    this.state = {
      count: 0,
    };
  }

  handleIncrement = () => {
    this.setState((prevState) => ({
      count: prevState.count + 1,
    }));
  };

  render() {
    return (
      <div>
        <p>Count: {this.state.count}</p>
        <button onClick={this.handleIncrement}>Increment</button>
      </div>
    );
  }
}
export default Counter;
```

Assignment 4: States

```javascript
// TemperatureConverterClass.js
import React, { Component } from 'react';

class TemperatureConverterClass extends Component {
  constructor() {
    super();
    this.state = {
      celsius: 0,
      fahrenheit: 32,
    };
  }

  handleCelsiusChange = (e) => {
    const value = e.target.value;
    this.setState({
      celsius: value,
      fahrenheit: (value * 9) / 5 + 32,
    });
  };

  handleFahrenheitChange = (e) => {
    const value = e.target.value;
    this.setState({
      fahrenheit: value,
      celsius: ((value - 32) * 5) / 9,
    });
```

```jsx
  };

  render() {
    return (
      <div>
        <label>Celsius:</label>
        <input
          type="number"
          value={this.state.celsius}
          onChange={this.handleCelsiusChange}
        />
        <br />
        <label>Fahrenheit:</label>
        <input
          type="number"
          value={this.state.fahrenheit}
          onChange={this.handleFahrenheitChange}
        />
      </div>
    );
  }
}

export default TemperatureConverterClass;
```

Assignment 5: Props

```jsx
// Parent.js
```

```jsx
import React from 'react';
import Child from './Child';

const Parent = () => {
  const message = 'Hello from Parent!';

  return <Child message={message} />;
};

export default Parent;

// Child.js
import React from 'react';

const Child = (props) => {
  return <p>{props.message}</p>;
};

export default Child;
```

Assignment 6: Conditional Rendering

```jsx
// UserStatusClass.js
import React, { Component } from 'react';

class UserStatusClass extends Component {
  constructor() {
    super();
```

```
    this.state = {
      isLoggedIn: false,
    };
  }

  handleLogin = () => {
    this.setState({
      isLoggedIn: true,
    });
  };

  render() {
    return (
      <div>
        {this.state.isLoggedIn ? (
          <p>Welcome, User!</p>
        ) : (
          <button onClick={this.handleLogin}>Log In</button>
        )}
      </div>
    );
  }
}

export default UserStatusClass;
```