**ReactJS Hands-On Lab Report – Using Props and reactDOM.render()**

**Objectives**

* Define Props
* Explain Default Props
* Identify the differences between State and Props
* Explain reactDOM.render()

**In this hands-on lab, you will learn how to:**

* Use Props
* Apply reactDOM.render()

**Prerequisites**

* Node.js
* NPM (Node Package Manager)
* Visual Studio Code

**Step-by-Step Instructions**

1. Open Command Prompt and run:  
   npx create-react-app shoppingapp
2. Navigate to project folder:  
   cd shoppingapp
3. Open the project in Visual Studio Code:  
   code .
4. Create a new file Cart.js inside the src folder and paste the Cart component code.
5. Create a new file OnlineShopping.js in src folder with an array of 5 items.
6. Loop through items in OnlineShopping and pass props to Cart.
7. Modify App.js to include OnlineShopping.
8. Run the application using:  
   npm start

**Code: Cart.js**

import React from 'react';

class Cart extends React.Component {

static defaultProps = {

itemname: "Unknown Item",

price: 0

};

render() {

return (

<div style={{border: '1px solid black', margin: '10px', padding: '10px'}}>

<h3>Item: {this.props.itemname}</h3>

<p>Price: ₹{this.props.price}</p>

</div>

);

}

}

export default Cart;

**Code: OnlineShopping.js**

import React from 'react';

import Cart from './Cart';

class OnlineShopping extends React.Component {

constructor(props) {

super(props);

this.state = {

items: [

{ itemname: "Mobile Phone", price: 12000 },

{ itemname: "Laptop", price: 45000 },

{ itemname: "Headphones", price: 1500 },

{ itemname: "Smart Watch", price: 5000 },

{ itemname: "Camera", price: 25000 }

]

};

}

render() {

return (

<div>

<h2>Online Shopping Cart</h2>

{this.state.items.map((item, index) => (

<Cart key={index} itemname={item.itemname} price={item.price} />

))}

</div>

);

}

}

export default OnlineShopping;

**Code: App.js**

import React from 'react';

import './App.css';

import OnlineShopping from './OnlineShopping';

function App() {

return (

<div className="App">

<OnlineShopping />

</div>

);

}

export default App;





