**React HOL-12**

**Explain about conditional rendering in React**

**Conditional rendering** in React means showing or hiding components or elements based on a condition. It works like regular JavaScript if statements or ternary (? :) operators.

**Example:**

{isLoggedIn ? <Welcome /> : <Login />}

**Define element variables**

**Element variables** are variables that store JSX elements. You can use them to decide what to render before returning JSX from a component.

**Example:**

let message;

if (isLoggedIn) {

message = <Welcome />;

} else {

message = <Login />;

}

return <div>{message}</div>;

**Explain how to prevent components from rendering**

To **prevent a component from rendering**, you can:

* Return null from the component's render method or function.
* Use conditional logic (like an if statement) to skip rendering.

**Example:**

function WarningBanner(props) {

if (!props.show) {

return null; // Nothing will be rendered

}

return <div className="warning">Warning!</div>;

**AuthButtons.jsx**

import React from 'react';

function AuthButtons({ isLoggedIn, onLogin, onLogout }) {

return (

<div>

{isLoggedIn ? (

<button onClick={onLogout}>Logout</button>

) : (

<button onClick={onLogin}>Login</button>

)}

</div>

);

}

export default AuthButtons;

**UserPage.jsx**

import React from 'react';

import FlightDetails from './FlightDetails';

function UserPage() {

return (

<div>

<h2>Welcome, User!</h2>

<FlightDetails />

<button>Book Ticket</button>

</div>

);

}

export default UserPage;

**FlightDetails.jsx**

import React from 'react';

function FlightDetails() {

return (

<div>

<h3>Available Flights</h3>

<ul>

<li>Flight A - 10:00 AM</li>

<li>Flight B - 12:30 PM</li>

<li>Flight C - 6:45 PM</li>

</ul>

</div>

);

}

export default FlightDetails;

**GuestPage.jsx**

import React from 'react';

import FlightDetails from './FlightDetails';

function GuestPage() {

return (

<div>

<h2>Welcome, Guest!</h2>

<FlightDetails />

<p>Please login to book tickets.</p>

</div>

);

}

export default GuestPage;

**Output**

**A white background with a black border

AI-generated content may be incorrect.**

**A white background with a black border

AI-generated content may be incorrect.**