**13. ReactJS – HOL**

**1. Explain various ways of conditional rendering**

* if-else
* element variables
* ternary operator
* short-circuit &&

**2. Render multiple components**

<>

<ComponentOne />

<ComponentTwo />

</>

**3. Define list component**

* Component that renders a list from an array using map()

const List = ({ items }) => (

<ul>{items.map(i => <li key={i.id}>{i.name}</li>)}</ul>

);

**4. Explain keys in React applications**

* Help React identify which items changed
* Should be unique and stable (e.g., id)

**5. Extract components with keys**

const Item = ({ item }) => <li>{item.name}</li>;

const List = ({ items }) => (

<ul>{items.map(item => <Item key={item.id} item={item} />)}</ul>

);

**6. Explain React.map() function**

* Not a built-in React function
* React commonly uses JavaScript’s Array.prototype.map() to render lists

**13. Create a React App named “bloggerapp” in with 3 components.**

1. **Book Details**
2. **Blog Details**
3. **Course Details**

**Implement this with as many ways possible of Conditional Rendering.**

**Step 1:** Open Terminal and create a new react project

***npx create-react-app bloggerapp***

***cd bloggerapp*  
Step 2:** Create Components BookDetails.js, BlogDetails.js and CourseDetails.js

**BookDetails.js**

import React from 'react';

const books = [

  { id: 1, title: 'React Made Easy', author: 'John Smith' },

  { id: 2, title: 'Learning JSX', author: 'Jane Doe' }

];

const BookDetails = () => {

  return (

    <div>

      <h2>Book Details</h2>

      <ul>

        {books.map(book => (

          <li key={book.id}>

            <b>{book.title}</b> - {book.author}

          </li>

        ))}

      </ul>

    </div>

  );

};

export default BookDetails;

**BlogDetails.js**

import React from 'react';

const blogs = [

  { id: 1, topic: 'React Basics', author: 'Ananya' },

  { id: 2, topic: 'JSX Tips', author: 'Rahul' }

];

const BlogDetails = () => {

  return (

    <div>

      <h2>Blog Details</h2>

      <ul>

        {blogs.map(blog => (

          <li key={blog.id}>

            <b>{blog.topic}</b> - by {blog.author}

          </li>

        ))}

      </ul>

    </div>

  );

};

export default BlogDetails;

**CourseDetails.js**

import React from 'react';

const courses = [

  { id: 1, name: 'React Fundamentals', duration: '3 weeks' },

  { id: 2, name: 'Advanced React', duration: '4 weeks' }

];

const CourseDetails = () => {

  return (

    <div>

      <h2>Course Details</h2>

      <ul>

        {courses.map(course => (

          <li key={course.id}>

            <b>{course.name}</b> - {course.duration}

          </li>

        ))}

      </ul>

    </div>

  ); };

export default CourseDetails;

**App.js**

import React, { useState } from 'react';

import BookDetails from './components/BookDetails';

import BlogDetails from './components/BlogDetails';

import CourseDetails from './components/CourseDetails';

function App() {

  const [view, setView] = useState("book");

  let content;

  if (view === "book") {

    content = <BookDetails />;

  } else if (view === "blog") {

    content = <BlogDetails />;

  } else if (view === "course") {

    content = <CourseDetails />;

  } else {

    content = <p>Select a view above</p>;

  }

  return (

    <div style={{ padding: "20px" }}>

      <h1>Blogger App</h1>

      <button onClick={() => setView("book")}>Show Books</button>

      <button onClick={() => setView("blog")}>Show Blogs</button>

      <button onClick={() => setView("course")}>Show Courses</button>

      <hr />

      {content}

      <div style={{ marginTop: "20px" }}>

        <h3>Quick View: </h3>

        {view === "book" ? <p>You're viewing books</p> :

         view === "blog" ? <p>You're viewing blogs</p> :

         view === "course" ? <p>You're viewing courses</p> :

         <p>Nothing selected</p>}

      </div> </div>

  ); }

export default App;

**Step 3:** In terminal, type ***npm start*** and this will run your code.

**OUTPUT:**





