**Week-6**

**ReactJS-HOL**

**4. ReactJS-HOL hands-on**

**Create a React application “blogapp” that uses lifecycle hooks like componentDidMount() and componentDidCatch() to fetch and render posts.**

**Code:**

**Post.js**

class Post {

    constructor(id, title, body) {

        this.id = id;

        this.title = title;

        this.body = body;

    }

}

export default Post;

**Posts.js**

import React from "react";

import Post from "./Post";

class Posts extends React.Component {

// Initialize component state

    constructor(props) {

        super(props);

        this.state = {

            posts: [],

            error: null

        };

    }

    loadPosts() {

        fetch("https://jsonplaceholder.typicode.com/posts")

        .then((response) => response.json())

//convert plain data to Post class instances

        .then((data) => {

            const postList = data.map((item) => new Post(item.id, item.title, item.body));

            this.setState({ posts: postList});

        })

// If fetch fails, update state with error info

        .catch((err) => {

            this.setState({error: err});

        });

    }

// Lifecycle method: called once after component is mounted

    componentDidMount() {

        this.loadPosts();

    }

// Lifecycle method: catches render errors in child components

    componentDidCatch(error, info) {

        alert("An error occured while rendering the component..");

        console.error("Error: ", error);

        console.error("Info: ", info);

    }

    render(){

        const {posts, error} = this.state;

        if(error){

            return <h2>Error loading posts.</h2>

        }

        return(

            <div>

                <h1>Blog Posts</h1>

                {posts.map((post) => (

                    <div key={post.id}>

                        <h2>{post.title}</h2>

                        <p>{post.body}</p>

                        <hr/>

                    </div>

                ))}

            </div>

        );

    }

}

export default Posts;

**App.js**

import React from "react";

import Posts from "./Posts"

import './App.css';

function App() {

  return (

    <div className="App">

      <Posts/>

    </div>

  );

}

export default App;

**Output:**

