WEEK :6

* Explain React components

React components are **building blocks** of a React application.  
They define **how a UI (User Interface)** should look and behave.

* Identify the differences between components and JavaScript functions

Purpose:

React components are used to build UI elements in a React application.

JavaScript functions are used to perform logic or calculations.

Return Value:

React components return JSX (UI structure).

JavaScript functions return data like numbers, strings, or objects.

Features:

React components can manage state and use hooks/lifecycle methods.

JavaScript functions do not have state or lifecycle features.

* Identify the types of components

Class and functional components

* Explain class component

A class component is defined using the class keyword.  
It extends React.Component and **must have a render() method**.

* Explain function component

A function component is a **JavaScript function** that returns **JSX**.

* Define component constructor

The constructor() is used **inside class components** to:

Initialize **state**

Bind methods

* Define render() function

It is **mandatory** in class components

It **returns JSX** (what you want to display in the browser)

App.js code:

import './App.css';

import Home from './Components/Home';

import About from './Components/About';

import Contact from './Components/Contact';

function App() {

  return (

    <div className="container">

      <Home />

      <About />

      <Contact />

    </div>

  );

}

export default App;

About.js:

import React, { Component } from 'react';

class About extends Component {

  render() {

    return (

      <div>

        <h2>This is the About Page</h2>

      </div>

    );

  }

}

export default About;

Contact.js:

import React, { Component } from 'react';

class Contact extends Component {

  render() {

    return (

      <div>

        <h2>This is the Contact Page</h2>

      </div>

    );

  }

}

export default Contact;

Home.js:

import React, { Component } from 'react';

class Home extends Component {

  render() {

    return (

      <div>

        <h2>This is the Home Page</h2>

      </div>

    );

  }

}

export default Home;

Output:

