1. **Explain React Components**

React components are independent, reusable building blocks of a UI in a React application. Each component returns JSX that describes what should appear on the screen.

1. **Difference Between Components and JavaScript Functions**

| **React Components** | **JavaScript Functions** |
| --- | --- |
| Return JSX (UI elements) | Return values or perform actions |
| Can manage state & props | Cannot directly manage UI state |
| Used to build UIs | Used for logic and computation |
| Lifecycle methods (class) | No built-in lifecycle behavior |

1. **Types of Components**

* Function Component
* Class Component

1. **Explain Class Component**

A **Class Component**:

* Is a JavaScript ES6 class
* Extends React.Component
* Has lifecycle methods
* Can hold state

import React, { Component } from 'react';

class Home extends Component {

render() {

return <h1>Welcome to the Home page</h1>;

}

}

1. **Explain Function Component**

A **Function Component**:

* Is a simple JavaScript function
* Returns JSX
* Can use Hooks (like useState, useEffect)

function Home() {

return <h1>Welcome to the Home page</h1>;

}

1. **Define Component Constructor**

Used in **class components** to:

* Initialize state
* Bind methods

constructor(props) {

super(props);

this.state = { name: "React" };

}

1. **Define render() Function**

The render() function returns the UI that should be displayed, written in JSX. Required in **class components**.