Ex 2 :

**What are React Components?**

React Components are the fundamental building blocks used to construct the user interface in a React application. They allow developers to split the UI into independent, reusable pieces that can be managed and rendered separately.

**React Components vs JavaScript Functions**

| **Feature** | **React Component** | **JavaScript Function** |
| --- | --- | --- |
| Purpose | Builds parts of the UI | Performs general operations |
| Return Type | Returns JSX/HTML | Returns data or value |
| Lifecycle Hooks | Supported (in class components) | Not available |

**Types of React Components**

React offers two main types of components:

1. Class Components
   * Defined using JavaScript class syntax
   * Can hold and manage their own state
   * Lifecycle methods (like componentDidMount) are available
   * Must include a render() method to return JSX
2. Function Components
   * Defined as JavaScript functions
   * Simpler and more concise
   * Can use React Hooks (like useState, useEffect) for state and side effects
   * Directly return JSX

**Code :**

**App.js**

import React from 'react';

import Home from './Components/Home';

import About from './Components/About';

import Contact from './Components/Contact';

function App() {

  return (

    <div style={{ textAlign: 'center', marginTop: '50px' }}>

      <Home />

      <About />

      <Contact />

    </div>

  );

}

export default App;

**About.js**

import React, { Component } from 'react';

class About extends Component {

  render() {

    return (

      <h2>Welcome to the About page of the Student Management Portal</h2>

    );

  }

}

export default About;

**Contact.js**

import React, { Component } from 'react';

class Contact extends Component {

  render() {

    return (

      <h2>Welcome to the Contact page of the Student Management Portal</h2>

    );

  }

}

export default Contact;

**Home.js**

import React, { Component } from 'react';

class Home extends Component {

  render() {

    return (

      <h2>Welcome to the Home page of Student Management Portal</h2>

    );

  }

}

export default Home;

**Output :**

