Question: Classes, Nested elements in JSX, JSX attributes, JSX

Code:

import React from "react";

// 1. JavaScript Classes

class Person {

constructor(name) {

this.name = name;

}

greet() {

return `Hello, I am ${this.name}`;

}

}

// 2. Class Inheritance

class Student extends Person {

constructor(name, course) {

super(name);

this.course = course;

}

introduce() {

return `${this.greet()} and I study ${this.course}`;

}

}

// 3. Arrow Function

const greetWithArrow = () => {

return "👋 Hello from an arrow function!";

};

// 4. Demonstrate this, var, let, const

function showVariables() {

var a = "I'm var";

let b = "I'm let";

const c = "I'm const";

console.log(a, b, c);

}

// 5. JSX Component

function App() {

const student = new Student("Bhavana", "React");

// Call variable demo

showVariables();

return (

<>

{/\* 6. JSX with nested elements and attributes \*/}

<div className="container" style={{ padding: "20px", fontFamily: "Arial" }}>

<h1>🌟 React + JavaScript Concepts</h1>

<p>{student.introduce()}</p>

<p>{greetWithArrow()}</p>

{/\* 7 Nested JSX \*/}

<div>

<h2>Nested Elements:</h2>

<ul>

<li>1. Classes</li>

<li> Inheritance</li>

<li>3. Arrow Functions</li>

<li>4. JSX Basics</li>

</ul>

</div>

{/\* 8 JSX attributes \*/}

<button onClick={() => alert("You clicked me!")}>Click Me</button>

</div>

</>

);

}

export default App;

**Outputs:**



