**📝 Assessment Problem Statement**

**📌 Title: *Product Listing with Promotional Badges and Actions***

**📖 Scenario:**

You are building a **Product Showcase Page** for an e-commerce app. Each product is displayed in a card-like component with details, conditional promotional badges, and a way to interact with the product (like marking it as a favorite or removing it from the list).

**✅ Requirements**

**1. ProductCard Component**

Create a ProductCard component that accepts the following props:

* title (string)
* price (number)
* isOnSale (boolean)
* onRemove (function)
* children (React children content like product description, tags, etc.)

**Functionality**:

* Display the title and price.
* If isOnSale is true, conditionally render a red **"Sale"** badge next to the product title.
* Render any children passed inside the card (e.g., description, additional labels).
* A "Remove" button that triggers the onRemove callback to remove the product.

**2. ProductList Component**

Create a ProductList component that:

* Uses useState to maintain an array of at least 3 product objects.
* Each product should include: title, price, isOnSale.
* Renders a list of ProductCard components.
* Includes a function to remove a product when the “Remove” button is clicked.

**🔍 Bonus (Optional)**

* Display a **“No Products Available”** message if the list is empty (conditional rendering).
* Add a **"Mark as Favorite"** feature passed via props method.

**💡 Example Usage**

<ProductCard

title="Bluetooth Speaker"

price={1299}

isOnSale={true}

onRemove={() => handleRemove(index)}

>

<p>High quality sound with 12-hour battery life.</p>

</ProductCard>