**EXPERIMENT NO.3.1**

### 🎯 Aim:

To create a reusable Product Card component in React that dynamically displays product details (image, title, price, description) using props, promoting code reusability and modular UI design.

### 📖 Theory:

In React, props (short for properties) are used to pass data from a parent component to a child component. This makes components dynamic and reusable because the same component can display different content based on props.

A ProductCard component can take props like:

* image: URL of product image
* title: Product name
* description: Short details
* price: Product price

This approach is widely used in e-commerce, dashboards, and portfolios because it avoids repetitive code.

CODE:

import React from "react";

// ProductCard Component using Props

function ProductCard({ image, title, description, price }) {

return (

<div style={{

maxWidth: "250px",

background: "#fff",

borderRadius: "10px",

boxShadow: "0 4px 8px rgba(0,0,0,0.1)",

padding: "16px",

margin: "10px",

textAlign: "center"

}}>

<img

src={image}

alt={title}

style={{ width: "100%", height: "150px", objectFit: "cover", borderRadius: "8px" }}

/>

<h2 style={{ fontSize: "18px", margin: "10px 0" }}>{title}</h2>

<p style={{ fontSize: "14px", color: "#555" }}>{description}</p>

<div style={{ display: "flex", justifyContent: "space-between", marginTop: "10px" }}>

<span style={{ fontWeight: "bold", color: "green" }}>₹{price}</span>

<button style={{

background: "#007BFF",

color: "#fff",

border: "none",

padding: "6px 12px",

borderRadius: "5px",

cursor: "pointer"

}}>

Buy Now

</button>

</div>

</div>

);

}

// Main App Component

function App() {

return (

<div style={{

background: "#f4f4f4",

minHeight: "100vh",

display: "flex",

flexWrap: "wrap",

justifyContent: "center",

alignItems: "center",

padding: "20px"

}}>

<ProductCard

image="https://via.placeholder.com/300"

title="Wireless Headphones"

description="High-quality sound with noise-cancellation."

price="2999"

/>

<ProductCard

image="https://via.placeholder.com/300"

title="Smart Watch"

description="Track your health and stay connected."

price="4999"

/>

<ProductCard

image="https://via.placeholder.com/300"

title="Gaming Mouse"

description="Ergonomic design with RGB lighting."

price="1499"

/>

</div>

);

}

export default App;

