Exercise 9

1. Creating a Product Card

Create the product card and render it to the DOM. The product card needs:

- 1. The product image (img element).
 - src attribute must be equal to the imageUrl variable.
 - alt attribute must be equal to the string Computer.
 - width attribute must be equal to the 256.
- 2. The product title (h3 element).
 - Its text content must be Computer.
- 3. The product price (span element).
 - Its text content must be Price: \$129.99.
- 4. The product description (p element).
 - Its text content must be New Model.

Hint:

- 1. The src attribute must contain the imageUrl variable as a value. Use curly braces {}.
 - 2. The alt attribute must contain the string "Computer" as a value. Enclose it in double quotes.
 - 3. The width attribute must contain the number 256 as a value. Use curly braces {}.
 - 3. Ensure that the h3, span, and p elements have correct values.

2. Functional Components

Creating an Encyclopedia Source

Create an encyclopedia source of two cards. Each card will display an image and a description. The goal is to practice creating functional components and passing data to child components using props.

Instructions:

- 1. Create a Card component as a reusable card template.
- 2. In the Card component, accept the following props:
 - link: The URL of the image for the card.
 - alt: The alternative text for the image.
 - description: The description text for the card.
- 3. Use the Card component twice in the App component to create two cards with the following content:
- Card 1 (About the Sun):
 - Image URL: https://codefinity-content-media.s3.eu-west 1.amazonaws.com/code-1/react/introduction-to-react/sun.png
 - Alternative text: Provide an appropriate description.
 - Description: "The sun shone brightly, casting a warm glow across the tranquil beach."
- Card 2 (About the Mountain):
 - Image URL: https://codefinity-content-media.s3.eu-west 1.amazonaws.com/code-1/react/introduction-to-react/mountain.png
 - Alternative text: Provide an appropriate description.
 - Description: "The hiker gazed in awe at the majestic mountain towering before them."

Ensure that both the Card and App components are appropriately modified to display the cards correctly.

Hint:

1. You can use the same Card component for both cards and control their content using props.

- 2. To pass the URL as a prop, create a prop called link and provide the URL as its value. Enclose the value in double quotes since it's a string.
- 3. Similarly, create props for alt and description and provide the appropriate values.
- 4. To use these props within the child component Card, access them using dot notation since props is an object.

3. Conditional Rendering with the && Operator

We want to notify students who have passed an exam. If a student's score exceeds 60 points, we'll display a success message with their name and score.

The Notification component conditionally renders a paragraph element based on the mark prop value.

4. Conditional Rendering with the Ternary Operator

Consider a scenario where we want to greet users differently based on their logged-in. The Greeting component demonstrates conditional rendering with the ternary operator.

```
1 const Greeting = (props) =>
2  props.loggedIn ? (
3    Welcome to the home page, {props.name}.
4 ): (
5    Hello {props.name}, could you please log in.
6 );
```

In this example, the Greeting component greets users differently based on the loggedIn prop value.

5. Render a Data Collection

We will have an App component that will pass the prop toys, an array of objects. The ToyCard component will utilize the map() method to render each toy in the array.

```
2 const toysData = [
3 { id: "id-1", name: "Rainbow Sparkle Unicorn Plush" },
4 { id: "id-2", name: "Jungle Adventure Playset" },
5 { id: "id-3", name: "Magical Princess Castle Dollhouse" },
   { id: "id-4", name: "RoboBot Transformer Robot" },
7 { id: "id-5", name: "SuperBlast Action Figure" },
8];
11 const ToyCard = (props) => (
12 
13 {props.toys.map((toy) => (
      {toy.name}
     ))]
16 
17 );
20 const App = () => (
      <ToyCard toys={toysData} />
23 </>
```

Let's fix the app using the key props for the items. The key prop is set on the element that will be rendered multiple times within an array of data.