TASK-10

- 10. Use React to Render Nested Components:
- Render multiple `WeatherInfo` components for different cities inside `WeatherApp`.

Steps for Task 10:

- 1. Ensure that WeatherApp Fetches Data for Multiple Cities:
 - You should already have an array of cities (e.g., ['London', 'New York', 'Tokyo']) in your WeatherApp.isx component.
 - The fetchWeatherData function will loop through these cities and fetch the weather data for each one.
- 2. Render Multiple WeatherInfo Components:
 - You will pass each city's weather data as props to a separate WeatherInfo component.
 - You can map over the weatherData array, which contains the weather information for each city, and render a WeatherInfo component for each item in the array.
- Updated Code for Task 10:

Update WeatherApp.jsx to Render Multiple WeatherInfo Components:

```
// src/components/WeatherApp.jsx
import React, { useState, useEffect } from 'react';
import WeatherInfo from './WeatherInfo'; // Import the WeatherInfo component
const API_KEY = 'your-api-key'; // Replace with your OpenWeather API key
const WeatherApp = () => {
// State to store the weather data
 const [weatherData, setWeatherData] = useState([]);
 useEffect(() => {
 const cities = ['London', 'New York', 'Tokyo']; // Example cities
 const fetchWeatherData = async () => {
  const weatherPromises = cities.map(async (city) => {
   // Fetch data from OpenWeather API
   const response = await
fetch(`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${API_KEY}&units=
metric`);
   const data = await response.json();
```

```
// Return the data in a format we can use
   return {
    city: data.name,
    temperature: data.main.temp,
    description: data.weather[0].description,
   };
  });
  // Wait for all fetches to complete
  const results = await Promise.all(weatherPromises);
  setWeatherData(results); // Set the weather data in the state
 };
 fetchWeatherData();
}, []);
return (
 <div className="weather-app">
  <h1>Weather App</h1>
  {weatherData.length === 0 ? (
   Loading... // Show a loading message until data is fetched
  ):(
   weatherData.map((weather, index) => (
    // Render a WeatherInfo component for each city's data
    <WeatherInfo
     key={index}
     city={weather.city}
     temperature={weather.temperature}
     description={weather.description}
    />
   ))
  </div>
};
export default WeatherApp;
```

- Run the App:

npm start