TASK-9

9. Create a React *Component:*

– *Create a `WeatherApp.jsx` component that fetches data from a weather API and passes it to `WeatherInfo`.*

1. Create a WeatherApp.jsx Component:

– *The WeatherApp.jsx component will handle fetching weather data from the API and passing that data down to the WeatherInfo component.*

2. Fetch Weather Data from API:

– *You'll use the useEffect hook to fetch weather data when the component mounts. You'll also use the useState hook to store and update the weather data.*

3. Pass the Data to WeatherInfo Component:

– *After fetching the data, you'll pass the weather information as props to each WeatherInfo component.*

WeatherApp.jsx:

```jsx
// src/components/WeatherApp.jsx
import React, { useState, useEffect } from 'react';
import WeatherInfo from './WeatherInfo';

const API_KEY = 'ef87342347122c132f97f2abdcccc816'; // Replace with your OpenWeather API key

const WeatherApp = () => {
  const [weatherData, setWeatherData] = useState([]);

  useEffect(() => {
    const cities = ['London', 'New York', 'Tokyo']; // Example cities
    const fetchWeatherData = async () => {
      const weatherPromises = cities.map(async (city) => {
        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 {
```

```
    city: data.name,
    temperature: data.main.temp,
    description: data.weather[0].description,
   };
  });

  const results = await Promise.all(weatherPromises);
  setWeatherData(results);
 };

 fetchWeatherData();
}, []);

 return (
  <div className="weather-app">
   <h1>Weather App</h1>
   {weatherData.length === 0 ? (
    <p>Loading...</p>
   ) : (
    weatherData.map((weather, index) => (
     <WeatherInfo
      key={index}
      city={weather.city}
      temperature={weather.temperature}
      description={weather.description}
     />
    ))
   )}
  </div>
 );
};

export default WeatherApp;
```

In App.js, Render the WeatherApp Component:

```
import React from 'react';
import './App.css';
import WeatherApp from './components/WeatherApp';

const App = () => {
 return (
   <div className="App">
    <WeatherApp />
   </div>
 );
};

export default App;
```

    – ***Test the App:***

```
npm start
```