Develop a React code to collect data from rest API.

Steps

1. Open your USN folder/10th_prog in Vs Code
2. Open terminal and write following command
   a. npx create-react-app rest_api {*app_name*}
   b. cd search-filter
3. Create a new file called FetchData.js inside src folder
4. Replace the code in "src/App.js" with the script given below.
5. To run the program, type the command
   a. npm start

FetchData.js

```javascript
// src/FetchData.js
import React, { useState, useEffect } from 'react';

const FetchData = () => {
  const [data, setData] = useState([]);
  const [loading, setLoading] = useState(true);
  const [error, setError] = useState(null);

  useEffect(() => {
    // Fetch data from a REST API
    const fetchData = async () => {
      try {
        const response = await fetch('https://jsonplaceholder.typicode.com/posts');
        if (!response.ok) {
          throw new Error('Network response was not ok');
        }
        const data = await response.json();
        setData(data);
        setLoading(false);
      } catch (error) {
        setError(error);
        setLoading(false);
      }
    };

    fetchData();
  }, []);

  if (loading) return <div>Loading...</div>;
  if (error) return <div>Error: {error.message}</div>;

  return (
    <div>
      <h1>Fetched Data</h1>
      <ul>
        {data.map(item => (
          <li key={item.id}>{item.title}</li>
```

```
      ))}
    </ul>
  </div>
  );
};


export default FetchData;
```

/src/App.js

```
// src/App.js
import React from 'react';
import FetchData from './FetchData';

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <FetchData />
      </header>
    </div>
  );
}

export default App;
```