Develop a React code to build a simple search filter functionality to display a filtered list based on the search query entered by the user.

Steps

1. Open your USN folder/9ᵗʰ_prog in Vs Code
2. Open terminal and write following command
   a. npx create-react-app search-filter {*app_name*}
   b. cd search-filter
3. Replace the code in "src/App.js" with the script given below.
4. To run the program type the command
   a. npm start

```
import React, {useState} from 'react';

// Sample data to search
const items = ['Apple','Banana','Cherry','Dragonfruit','Mango','Orange','Grape'];

function App() {
// State to manage the search query
const [query, setQuery] = useState('');

// Function to handle input change
const handleInputChange = (event) => {
 setQuery(event.target.value);
};

// Filtered list based on the search query
const filteredItems = items.filter((item) =>
 item.toLowerCase().includes(query.toLowerCase())
);

return (
 <div style={{ padding: '20px' }}>
  <h1>Search Filter</h1>
  <input
   type="text"
   placeholder="Search..."
   value={query}
   onChange={handleInputChange}
   style={{ padding: '10px', fontSize: '16px', width: '300px' }}
  />
  <ul>
   {filteredItems.map((item, index) => (
    <li key={index} style={{ listStyle: 'none', padding: '5px 0' }}>
     {item}
    </li>
   ))}
  </ul>
 </div>
```

```
  );
}

export default App;
```