Title: Building a Reactive Search Component

Objective: To evaluate the candidate's understanding of data binding and component logic in Angular.

Problem Description:
Your task is to develop a feature that allows users to filter a dataset based on their input.

Functional Requirements:

1. **Data:** Initialize a component property with an array of objects (e.g., a list of names, cities, or any other dataset of your choice).
2. **UI:**

o   Provide an HTML text input box for the user to enter a search term.
o   Display the list of items beneath the search box.

3. **Logic:**

o   Implement functionality so that the displayed list dynamically updates to show only items that contain the search query in their relevant property (e.g., the title or name field).
o   The search must be performed in a case-insensitive manner.

4. **(Bonus)** Handle a scenario where the search input is empty by displaying the full list.