THEORY ASSIGNMENT

LIST AND KEY

Question 1: How do you render a list of items in React? Why is it important to use keys when rendering lists?

Answer:

In React, you render a list by using the .map() function to loop through an array and return JSX for each item.

> Example:

Why use keys?

- Keys help React identify which items changed, added, or removed.
- They make the list rendering more **efficient and stable** during updates.

Question 2: What are keys in React, and what happens if you do not provide a unique key?

Answer:

Keys are unique identifiers (usually id or index) given to elements in a list. Example: key={user.id}

If you don't provide a unique key:

React may re-render items incorrectly.

- It can cause **bugs in dynamic lists** like animations, form inputs, etc.
- React will also show a warning in the console:
 "Each child in a list should have a unique "key" prop."