React- Day -9: useRef & useReducer:

Use Ref:

useRef to access to DOM elements, manage focus,

A function that uses the ref to focus on the element.

A ref is like a **"magical pointer"** that allows you to interact directly with a specific **DOM element**

useRef() only returns one item. It returns an Object called **current** (focus(), value)

don't trigger a re-render of the component but state managed.

Eg: const ref= useRef() => returns current object (focus(), value)?

ref.current.focus() -> focus on the element.

Ref.current.value -> input box -> value

useReducer in React:

It is similar to the useState Hook.

It allows for **custom state logic**.

If you find yourself keeping **track of a group of states** that rely on **complex logic.**

The useReducer Hook returns the current state value and a dispatchmethod.

trigger a re-render of the component when state updated using dispatch.

Eg:

const[state, dispatch] = useReducer(ReducerAction, statevalue)

State = stateValue

Dispatch = reducerAction()

Game:

Eg: Tic Tac Toe

In a Tic Tac Toe game using React,

you can use the **useRef hook to maintain a mutable** reference to the game state without triggering re-renders.

Additionally, you can use the **useReducer hook to manage complex state transitions** based on user interactions.