***Module-13 React – Applying Redux***

**1. What is Redux?**

**Ans:-** Redux is a state management library for JavaScript applications, used with React. It helps manage the application state in a predictable way by using a single source of the store and implementing a unidirectional data flow.

**2. What is Redux Thunk used for?**

**Ans:-**Redux Thunk is a middleware that allows you to write action creators that return a function instead of an action. This is useful for handling asynchronous operations, such as fetching data from an API. It provides access to the dispatch and getState functions, enabling more complex interactions with the Redux store.

**3. What is a Pure Component? When to use Pure Component over Component?**

**Ans:-**A PureComponent in React is a component that implements shouldComponentUpdate with a shallow prop and state comparison.

The component renders the same output given the same props and state.

You want to optimize performance by preventing unnecessary re-renders.

**4. What is the second argument that can optionally be passed to setState and what is its purpose?**

**Ans:-**The second argument that can be passed to setState is a callback function. This callback function is executed once the state update is complete and the component has re-rendered. It is useful for performing actions after the state has been updated, such as making further updates or logging information..