**MODULE:13 React –Applying Redux**

**Q.1 • What is Redux?**

ANS. Redux is an open-source JavaScript library used to manage application state. React uses Redux for building the user interface. It was first introduced by **Dan Abramov** and **Andrew Clark** in **2015**.

React Redux is the official React binding for Redux. It allows React components to read data from a Redux Store, and dispatch **Actions** to the **Store** to update data. Redux helps apps to scale by providing a sensible way to manage state through a unidirectional data flow model. React Redux is conceptually simple. It subscribes to the Redux store, checks to see if the data which your component wants have changed, and re-renders your component.

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

Ans: Redux Thunk is middleware that allows you to return functions, rather than just actions, within Redux. This allows for delayed actions, including working with promises.

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

Ans: It is the type of component which re-renders only when the props passed to it changes and not even if its parent component re-renders or if the **shouldComponentUpdate()**method is called. It is greatly used to enhance the performance of a web application.

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

Ans: The second argument that can optionally be passed to [setState](https://www.geeksforgeeks.org/reactjs-setstate/) is a[call back function](https://www.geeksforgeeks.org/javascript-callbacks/)which gets called immediately after the setState is completed and the components get re-rendered.

If you want your program to update the value of a state using setState and then perform certain actions on the updated value of state then you must specify those actions in a function which should be the second argument of the setState. If we would not do so then those actions will be performed on the previous value of state because ofasynchronousnature of setState.