**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 of**asynchronous**nature of setState.

**Q.5 Create a Table and Search data from table using React Js?**

**ANS.**