**REACT NOTE**

Class - 1

Here we created a counter button where counter counts between 0-20 by using useState() hook.

useState hook we use to manage the state variable where we if any state variable changes its value then the DOM object will re-render automatically (no need to refresh the URL).

Class - 2

Here we created a project after clicking a button the home page background color will change to corresponding button color by the help of useState hook

Class – 3

Here we created a password generate project where user can define the length of the password and user can decide that password would contain number or special character. By using useState, useRef, useEffect, useCallback

useCallback hook we use to optimize the code means it simply memorize the code no need to call the function multiple time syntax is similar to useEffect.

useEffect hook is use when we have to execute a BOC during some changes in our components.

useRef hook is use to take the reference of dom element in this case we got the reference of input box.

here we use charAt() to find the character at that index.

Class – 4

Here we created a currency converter webpage where we call our first Api and do our first costume component by using useState, fetch() for API call how to pass props and how to destructor it. Dropdown props data integration was a challenge for me.

Class – 5

Here we know about React Router where we created multiple components first in main.tsx

We pass the RouterProvider component and pass the props {router} where router is initialized in top

It will initialize after calling createBrowserRouter() which pass the array of object as parameter . in the each object of array contain 2 keys path (contain the router path) and element (corresponding component) if the have any child then children key which is an another array of same object type.

And parent component diffidently contain <Outlet /> where child components are render here.

And we lerned about Link and NavLink component both are contain a to prop where the router path will define.

Class – 6

Here we learn about Context Hook it is basically use to prevent prop drilling concept and here all the state variable will store in a global place where both child component and parent component can directly access them.