Week 5

1. What is React ?

React is an open-source front-end JavaScript library rather than a language. It is commonly used to create/build UI for interactive web-applications. React is especially used withing single-page web development to increase the user experience by keeping the speed and responsiveness high.

1. React Component

React components are JS functions that accept inputs as “Props”, they return or render “React Elements” which creates User Interface that appears on the screen. When creating a component, the name must start with an upper-case letter.

Easiest way to define a component is to use JavaScript function such as;

fuction Welcome(props) {

return <h1> Hello, {props.name} </h1>

}

1. Rendering Element

Import React from ‘./myReact’;

ReactDOM.render (<MyReact />, document.getElementById('root'));

1. MyReact Component with heading property

function MyReact(props) {

return <h1>{props.heading}</h1>;

}

// Rendering the component and passing the message to the "heading" prop

ReactDOM.render(<MyReact heading="This is my first element" />, document.getElementById('root'));

1. Observe the code
2. The name of the React component is AppColor.
3. The AppColor component uses three properties: 1. heading 2. lbl 3. color.
4. Look at code
5. Export default GreetingElementwithProp;

import React, { useState } from 'react';

function AddNumbers(props) {

const [sum, setSum] = useState(0);

function handleClick() {

const result = props.num1 + props.num2;

setSum(result);

}

return (

<div>

<p>Sum: {sum}</p>

<button value={props.color} onClick={handleClick}>

Add Numbers

</button>

</div>

);

}

export default AddNumbers;