**Day 1 – 4th Oct’24**

1. **What is Component in React ?**

* A component is a piece of the UI (user interface) that has its own logic and appearance.
* A component can be as small as a button, or as large as an entire page.
* React components are JavaScript functions that return markup.
* React component names must always start with a capital letter, while HTML tags must be lowercase.

function MyButton() {

return (

<button>I'm a button</button>

);

}

1. **What is JSX in React ?**

* The markup syntax above is called *JSX*.
* JSX is stricter than HTML. You have to close tags like <br />.
* Your component also can’t return multiple JSX tags. You have to wrap them into a shared parent, like a <div>...</div> or an empty <>...</> wrapper.

1. **About Styling**

* CSS class with className

1. **Displaying data**

* Using curly braces {}

1. **Conditional Rendering**

* Using if else
* Using conditional ? operator
* Using logical && syntax when we don’t need else branch

1. **Rendering List**

* Javascript feature like for loop or map() function

1. **Responding to Events**

* onClick={handleClick} has no parentheses at the end!
* Do not *call* the event handler function.
* you only need to *pass it down*. React will call your event handler when the user clicks the button.

1. **Updating the screen**

* Using ‘useState’ hook

1. **Using Hooks**

* Functions starting with use are called *Hooks*.
* useState is a built-in Hook provided by React

1. **Sharing data between components**