React Component

Component is building blocks of an app written in React. React Component are the bunch of code which give some sort of functionality with html output. React Component is used to implement bunch of code on different part on application. It is just behave just like as HTML Element. Like Video, Audio, Input etc.

To change behaviour and different output with same component we use Props. It is just exactly same as attribute of html tag.

Ex:

<MyComponent mode=”dark” />

Here, mode is props of MyComponent.

**Component can be written in two different way**

**1.Class Component**

**2. Function Component**

**1 Class Component**

**class ClassComponent extends Component {**

**render() {**

**return <h1>I am from ClassComponent </h1>**

**}**

**}**

**2. Function Component**

**export default function FunComponent() {**

**return (**

**<h1>I am from FunComponent</h1>**

**)**

**}**

Props

Props are the option to change anything on React Component. Such as if you want to pass any variable in component to change any thing on the it then we will use props. It is just as similar as a attribute in html element

Example

In HTML

<input type=”text” value =”Student” />

Here, In html element type and value are attributes and text and Student are value respectively.

In React Component

<MyComponent value=”Student” />

Here, in react we have mention value as a props and Student as a value. In React Component we can define props as much as we want.

Ex

**const isSingle = false;**

**<MyComponent name=”Hira” class=”8” isMarried={ isSingle } />**

Here, in the props we can put string as well as variable. Here, in above we have passed isSingle constant which is holding false Boolean value.

Example

Student.js

function Student(props) {

return <h2>My Name is { props.name }!</h2>;

}

App.js

import Student from “./Student”;

function App (){

return <Student name=”John Smith” />

}

**Output**

<h2>My name is John Smith !</h2>