Assignment 2 – Into to React

Hands on Task

1. Create your first react element. Refer the **React.createElement example** slide.

import React from "react";

function App() {

return React.createElement('div', null,

React.createElement('p', {className:"App"}, "Hello World. This is my first React App."));

}

export default App;

1. Embed Expressions in JSX.

import React from "react";

function App() {

return (

<div>

<p className= "App"> Hi World. This is my first React App.</p>

</div>

);

}

export default App;

1. Return an JSX as expression in a function. **Greeting**– that gets name as a prop. Do destructuring.

export default function App() {

const name = "Yogesh";

return ( <div> <Greeting name={name} age={21} /> </div> );

}

function Greeting({ name, age }) {

if (name) {

return ( <p> Hello {name}, my age is {age}! </p> );

} else {

return <p>Hello anonyms!</p>;

}

}

1. Create your react element with JSX. Implement:
   1. Returning a group of elements with div
   2. Returning a group of elements with array
   3. Returning a group of elements with fragment
   4. Implement the table example with fragment. Slides are Fragment motivation, Error without Fragment, Solution with Fragment.
2. Declare a component as a
   1. class
   2. function.

import React from "react";

class ClassComponent extends React.Component{

render(){

return <h1> Hello from Class Component</h1>

}

}

export default ClassComponent;

import React from "react";

class FunctionalComponent extends React.Component{

render(){

return <h1> Hello from Functional Component</h1>

}

}

export default FunctionalComponent;

import React from "react";

import ClassComponent from "./classComponent";

import FunctionalComponent from "./functionComponent";

export default function App() {

return ( <div className = "App">

<ClassComponent/>

<FunctionalComponent/>

</div> );

}

Research

1. Read the lecture thoroughly. In your opinion, what are the 3 main points? Please share.

React is a library. Npx executes the library. React executes via bundle.js

1. Do a research about differences between a functional component and a class-based component and share your findings.

A functional component is just a plain JavaScript function that accepts props as an argument and returns a React element. A class component requires you to extend from React. Component and create a render function which returns a React element. There is no render method used in functional components.