

React

In React,

- creating UI is as simple as HTML.
- We can re-use the UI like JavaScript

to understand this,

let's create a simple button using React.

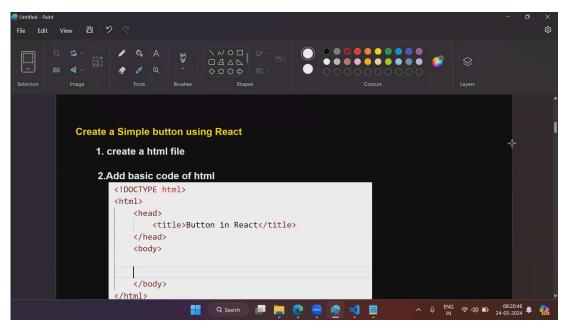
we have to follow some steps

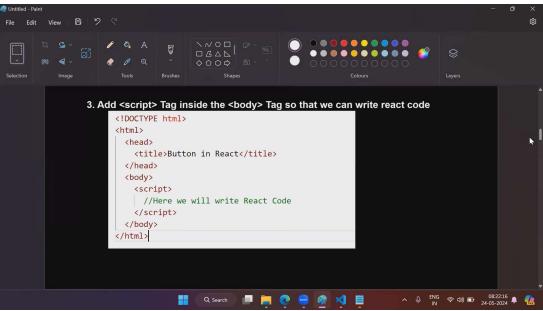
- 1. Create a html file
- 2. Add basic code of html
- 3. Add script tag inside the body tag. so that we can write react code.
- 4. Integrate React JS with HTML Document
 - o React is a JavaScript Library(Library : collection of predefined functions, classes, objects)
 - o In HTML to create UserInterface -- html provides -- Elments --> so that we can create UI Components
 - o Javascrpit -- provides predefined object and function -- DOM Element -- add in the DOM -- so the we can create User Interface
 - o React -- is providing predefined object and functions -- using these we create React Element -- this React Element in the DOM -- so that we can create UI
- 5. Create React Elemenet,

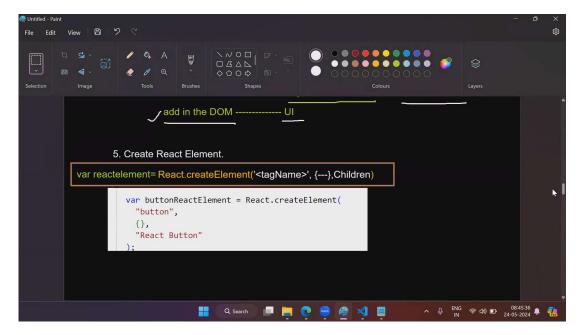
predefined object	React
predefined method	createElement()
	this function will take 3 arguments
	1st arg tagName> button,
	2nd arg object> {}> inside this we will mention the attributes of the elements
	3rd arg childern> childern can be anything that are present between opening tag and closing tag. it may be a content or another tag also.
	<tagname> some content here </tagname> or
	<tagname> some content here </tagname>

const reactElment = ReactElement("tagName", {}, "content here")

- 6. Add React element inside the DOM.
 - o ReactDOM is a library which is used to add React Elments inside the DOM.
 - o Integrate ReactDOM with HTML Document
 - o ReactDOM is providing a function called render().
 - o using this React.render() we can dd React element inside the DOM(Original DOM)
 - o it takes 2 argument
 - ReactElment
 - DOMReferenceElement
 - o ReactDOM.render(buttonReactElement,document.getElementById('body')







Creating UI in React is simple or Complex (using above method) it looks very similar to the javascript

from, these another concept came --> JSX

- As a ReactDeveloper, you will create JSX element.
- this jsx elements convert into React Element by the compiler called Babel.
- this converted React Element , we will have to add them to React DOM
- From React DOM to Original DOM and then User Interfaces are created
- JSX Elements are similar to the HTML

