

## **REACT**

React is a UI library, which helps us to write SPA(single page application) which is efficient.

React application comprised of multiple components.

all these components are organized in the tree structure format

In react babel compiler will convert JSX code into javascript code.

## To check online compiler

https://babeljs.io/repl#?browsers=defaults%2C%20not%20ie%2011%2C%20not%20ie\_mob%2011&build=&builtIns=false&corejs=3.21&spec=false&loose=false&code\_lz=FAHgJglgbgfMAE8QAsCMMASBTANjg9vAO74BOOYIA9GnCAK45ylg4Qz4B2W1bzSfAC4le7BAPaDkpLDyp9QVRnSqRYQA&debug=false&forceAllTransforms=false&modules=false&shippedProposals=false&circleciRepo=&evaluate=false&fileSize=false&timeTravel=false&sourceType=module&lineWrap=true&presets=env%2Creact%2Cstage-

2&prettier=false&targets=&version=7.24.5&externalPlugins=&assumptions=%7B%7D

In react components are of 2 types

- Functional component(Stateless component)
- 2. Class Component(Stateful component)

Functional compnent	class Component
const myfunctionalComponent=()=>{	class MyClassComponent{
return(	render(){
<div></div>	return(
<h1>Hello word!!</h1>	<div></div>
<h2>Welcome to React</h2>	<h1>Hello word!!</h1>
programming	<h2>Welcome to React</h2>
	programming
)	
}	)

export default myfunctionalComponent;	
	}
	}
	export default MyClassComponent;
It is a javascript function which returns a	It is a javascript class, which has render
JSX(Javascript extension)	function, Which returns JSX.
functional components are light weight as	class components are heavy as
compared to class component	compared to functional componet
In older version state was not accessible	we can store state, state is built in object
in functional components,	to store members of a class.
but in new version, we may use useState	
hook, to access the state.	
in functional component we cannot use	In class component lifecycle methods
lifecycle methods	are used
But in new version useEffect hook is	
added, which behaves like a lifecycle	
methods	

To create a react application we use a tool create-reat-app

- to install create-react-app, to install it globally use -g flag open command prompt c:/system32>npm install create-react-app -g
- to create react applicationc:/mydata/reactdemos>create-react-app myapp1

To create a application without installing create-react-app c:/mydata/reactdemos>npx create-react-app myapp1

Every user defined component name should stat with capital letter

```
To use conditional rendering in component
{
    this.state.count>0?<h4>You clicked {this.state.count} times</h4>:""
}
```