JSX

---> to create a element in react.js

--- React.createElement()

Syntax:

Type =tag name(h1,p,div)

Prop =class,id

ReactDOM.createRoot()

---> javascript xml

----> it is a syntax extension for javascript

----> jsx allows to write html code in reactjs

---> jsx allows html tags must be a closed

---> jsx compile html code to js

Example:

```
<body>
    <div id="a"></div>
    <script>
        const b=React.createElement('h1',{id:'c'},"Iam mallikarjunarao")
        const e=document.getElementById('a')
        const root=ReactDOM.createRoot(e)
        root.render(b)
    </script>
</body>
```


Example2:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>React Example</title>
  <script src="https://unpkg.com/react@18/umd/react.development.js"></script>
  <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>
  <script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
```

```
</head>
<body>
    <div id="a"></div>
    <script type="text/babel">
        const n=5
        const m=<h1> React js {n*2} times better than jsx</h1>
        const element = <h1 className="aa">Welcome to Hyderabad</h1>;
        const e = document.getElementById('a');
        const root = ReactDOM.createRoot(e);
        root.render(m);
    </script>
</body>
</html>
```

Output:

React js 50 times better than jsx

Example 3:

```
<body>
    <div id="root"></div>
    <script type="text/babel">
        const App=()=>{
            const isloggedin=true;
            return(
                <div>
                    {isloggedin?(<h1> welcome back,user</h1>):(<h1>please,log
in</h1>)}
                    {isloggedin&&<h1>you have a new notification</h1>}
                </div>
            )
        }
        const root=ReactDOM.createRoot(document.getElementById('root'))
        root.render(<App/>)
    </script>
```

Output:

Welcome back user
You have new notification

Example 4:

```
<div id="root"></div>
    <script type="text/babel">
        function greeting(name){
          return `Hello, ${name}! welcome to my programming world!!!`;
        }
        function getgreeting(){
          const name="gopi"
          return <h1> {greeting(name)} </h1>
        }
        //create root and render getgreeting component
        const root=ReactDOM.createRoot(document.getElementById('root'))
        root.render(getgreeting())
```

Output:

Hello, gopi! welcome to my programming world!!!