**REACT.js**

**Create app**

Cmd:

*> npx create-react-app app\_name*

**Run App:**

Cmd:

> npm start

App.js Language 🡪 jsx

**App.js default:**

*import* logo *from* './logo.svg';

*import* './App.css';

*function* App() {

*return* (

    <div *className*="App">

      <header *className*="App-header">

        <img *src*={logo} *className*="App-logo" *alt*="logo" />

        <p>

          Edit <code>src/App.js</code> and save to reload.

        </p>

        <a

*className*="App-link"

*href*="https://reactjs.org"

*target*="\_blank"

*rel*="noopener noreferrer"

        >

          Learn React

        </a>

      </header>

    </div>

  );

}

*export* *default* App;

**For coding in App.js:**

*import* logo *from* './logo.svg';

*import* './App.css';

*function* App() {

*return* (

  );

}

*export* *default* App;

**Error:**

*function* App() {

*return* (

    <h1>Hello</h1>

    <p>lorem</p>

  );

}

To solve this add fragments [<> ….</>] or you can use <div> tag.

**Add CSS:**

*function* App() {

*return* ( <>

    <h1>Hello</h1>

    {*/\* CSS \*/*}

    <p *style*={{color:"cyan",backgroundColor:"pink"}}>

      How Are You?

    </p>

  </>

  );

}

Note: for css use camelCase | remember two brackets {{…..css……}}

**Passing Expression:**

*function* App() {

*const* pic="logo192.png"

*const* description="This is description."

*return* ( <>

    <img *src*={pic} *alt*={description}></img>

  </>

  );

}

Folder: small letter

File: first letter capital

Component template:

*import* React *from* "react"

*function* filename(){

*return*(

    );

}

*export* *default* filename

**How to link component files in App.js?**

**Ex1.js file:**

*import* React *from* "react"

*function* Ex1(){

*return*(<>

        <h2>Veggies</h2>

            <ul>

                <li>Chilly</li>

                <li>Tomato</li>

                <li>Potato</li>

            </ul>

    </>);

}

*export* *default* Ex1

**App.js File:**

*import* logo *from* './logo.svg';

*import* './App.css';

*import* Ex1 *from* './component/Ex1'

*function* App() {

*return*(<>

    <Ex1></Ex1>

  </>);

}

*export* *default* App;

**React Props:**

* Props are used to transfer data from one component to other.
* Props are passed an object.

**Code:**

Component:

*import* React *from* "react"

*const* Props = (props)=>{

*return*(<>

        <h3>{props.name}</h3>

        <h3>{props.num}</h3>

    </>);

}

*export* *default* Props

App.js

*function* App() {

*return*(<>

   <Props *name*="Noah" *num*="200"></Props>

</>);

}

*export* *default* App;

**React Event:**

* onClick

Component:

*// write a react js script to display alert box with txt welcome to LJU by clicking on button.*

*import* React *from* "react"

*function* Event1(){

*// Internal CSS*

*const* mystyle={color:"white",backgroundColor:"black",padding:"10px 20px", margin:"10px 20px"};

*function* handleClick(){

        alert("Welcome LJU")

        document.body.style.backgroundColor = "sandybrown";

    }

*return*(<>

        //simple click

        <button *onClick*={handleClick} *style*={mystyle}>

             Click

        </button>

    </>);

}

export default Event1

* onDoubleClick

Component:

*// write a react js script to display alert box with txt welcome to LJU by clicking on button.*

*import* React *from* "react"

*function* Event1(){

*// Internal CSS*

*const* mystyle={color:"white",backgroundColor:"black",padding:"10px 20px", margin:"10px 20px"};

*function* handleClick(){

        alert("Welcome LJU")

        document.body.style.backgroundColor = "sandybrown";

    }

*return*(<>

        <button *onDoubleClick*={handleClick} *style*={mystyle}>

             Click

        </button>

    </>);

}

export default Event1

* onChange

Component:

*// wrt to display value in console while changing it in textbox.*

*import* React *from* "react"

*function* Event2(){

*function* handleChange(event){

        console.log(event.target.value)

    }

*return*(<>

        <input *type*="text" *name*="name" *onChange*={handleChange} *style*={{margin:"10px 20px"}}></input>

    </>);

}

*export* *default* Event2

**Map & Filter:**

* Map method used to traverse and display a list of similar object of a component .

Component (Map):

*// wrt to display value in console while changing it in textbox.*

*import* React *from* "react"

*function* Map(){

*const* ary=[1,11,111,1111,11111]

*return*(<>

       {

        ary.map((value=>{

*return* <h2>{value}</h2>

        }))

        }

    </>);

}

*export* *default* Map

Component (Filter):

*// for applied filter to skip digit 3 from the ary and display all reamin digit*

*import* React *from* "react"

*function* Filter(){

*const* ary=[1,2,3,4,5,6,3,8,9,7,3]

*const* nary=ary.filter((num)=>

    {

*if*(num==3)

            {*return* false}

*else*

        {*return* true}

    })

*var* ary1=ary.join(",")

*var* ary2=nary.join(",")

*return*(<>

       <h2>Before Filter: {ary1}</h2>

       <h2>After Filter: {ary2}</h2>

    </>);

}

*export* *default* Filter

**List & Key:**

* key is a special string attribute you need to include when creating list of element in react ,if list do not include key attribute then warning say each of the item in unordered list have unique key.

Component:

*import* React *from* "react"

*function* List\_Key(){

*const* ary=[{id:1,name:"Ken"},{id:2,name:"Noah"},{id:3,name:"Mark"}]

*return*(<ul>

       {

        ary.map((value)=>{

*return* <li *key*={ary.id.toString()}>

                {ary.name}

            </li>

        })

        }

    </ul>);

}

*export* *default* List\_Key

> npm i -D react-router-dom

> npm audit

> npm audit fix --force