

10 In big websites then first direct all components to app.jsx file. & only import app.jsx in index.js.

12 Components Practice → A simple task given. HTML inside return
JS, logic outside
 9. ~~***~~ (if only JS no return necessary)

13 Javascript ES6 (Import, Export & Modules)

*** 11 [Think of import as the code actually being present in the file you working in]

we have been using default export till now, but if you want to export more than one thing in one file then export & names of fn to export separated by comma;

Simi in import → import PI, & doublePI, triplePI from (08) . (12) ; //, math.js;

import * from ".math.js";
 ↓
 (as PI) → imports everything the file has.
 → add this to use it in file (necessary)

then you have to write PI.doublePI, can't directly use doublePI.

discouraged above method recommended.

(14) Practice task given.

15 Setting up of Environment done i.e for Atom. Now we work locally.

(12) Calling

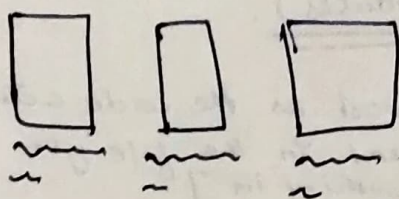
```
function App() {
  return (
    <div>
      <heading />
      <div>
    );
}
```

If no function
 ReactDOM.render(<App />, document.getElementById("root"));

(16) Keeper App Project (Part 1).

Successfully completed Part 1 of keeper app project.

(17) React Properties (Props).



can write three codes

VS

can use one code 3 times.

by just importing & using.

But we want diff info in each card though the view remains the same.

We do this: `<Card1 />`

Here we can pass things.

Eg:- code

→ function Card(props) {

return (

`<div>`

class Name can only go here

`<h2> {props.name} </h2>`

`</div>`

can have `<Avatar />` here and can have another function for it.

`);`

(So function inside function)

`ReactDOM.render(`

`<div>`

Not here

`<Card name = "Abhinav" />`

`</div>`

`document.getElementById('root'));`

Used when Avatar used for other things than the cards.

(18) React props practice task given.

React DevTools.

- React DevTools is present beside Problems & Console in IDE/Debugger.
- It gives you the component tree, so if you have component inside components & so on. It will show you how that looks like.
- Chrome web store → React Developer Tools by FB.
[View → Developer → Developer tools] → components.
- Really helps in debugging.

Mapping Data to Components.

```
<Card  
  name = "..."  
  img =  
  tel =  
  email =  
>
```

Very tedious process to be followed for every card.

As we have to type in everything manually, we have just automated this style till now.

For this, we can use loop to make life easier.

map fn is used to handle arrays (containing data).

* Let contacts be the array

```
<Card  
  name = {contacts[0].name}  
  img = {contacts[0].imgURL}  
  tel =  
  email =  
>
```

3 times [1] & [2]

* Let contacts be the array.

```
{contacts.map(createCard)}
```

replaced by this
function createCard(contact) {
 return <Card key={contact.name} name={contact.name} etc... />
}

VS

key should be there to diff comp as it is loop, to identify diff. Unusable prop.

should be above.

inside return.

②0 Mapping data Challenge given

②1 JavaScript ES6 Map/Filter/Reduce

→ we will learn more about map, filter, reduce, find & findIndex.

→ Map

→ arrayname.map(fnname) can be equated to `const newArr = ...` to use further.
↓
array/data we use
↳ describes what to do with array.
↳ can also use arrow fn inst of fnname.

→ loops through each array element & does what is in the func.

→ Filter

→ Filters out elements we don't want from the array.
(false)

→ arrayname.filter(fnname) $\left[\begin{array}{l} \text{function New } \{ \\ \text{return } 2 > 10; \} \end{array} \right]$

→ Reduce

→ Accumulating a value by doing something to each item in the array.

→ ∴ loops a large array, does a operation on them, & reduces them to a small value.

→ Find & Find Index have same syntax & stops when something returns true & returns that value.

↳ like slicing.
& Subscript also used

∴ Used for finding something.

22) JavaScript ES6 Arrow function.

Also called fat Arrow fn, they are a shorter way of writing Javascript functions.

eg:- `const newNum = numbers.map((x) => {
 return x * x;
});`

23) Keeper App Part 2

24) React Conditional Rendering

Showing diff things based on whether the user is logged in (or) not.

Note → whether you write code in App fn or not, everything must go through it bcz that's what we are exporting. If you build everything in different func, then you have to call that fn in App. [Else we have to export that too other than default].

Single responsibility principle discussed.

Have any doubt then you can go to the end product of the lecture (417). Building User login.

Ternary operator → Condition ? ^{if true} Do something : Else do this.

★ → We cannot use logic in return statement as we discussed before.

→ But we can use ternary operator.

If you don't want it to nothing or else then write : null.

★ [Even used in some situations for this]
AND operator