Day 1)

APCO —

## Namaste React

Ques 2) Différence B/w Library & framework.

Tt takes minimum effort to just put it inside

out code - library

Toolso-

1) Grougle Chrome

2) VS Gode

3) VS Code Extensions - Better Comments (Aaron Bond)

- Bracket Pair colorization (Dzhavat)

- ES7+ React/Redux - - (dsznajder)

- Gitlens - Git Supercharged (GitKraken)

- Prettier-Code formatter (prettier)

- VSCode-icons (VSCode icons Team)

#### =) Homework - Emmet

- Greated a new element (h1) with the help of Javascript and append it to (div id =" root") document: createllement() stuff comes from Browser APIS / JS Engine. Browser Knows what is document

React => A JS library used for building user interfaces & we can just inject React
into our code with base minimum things/efforts.

> Homework - CDN (Content Delivery Networks)

	Date: / /
-	injected React CDN links in our HTML files same as we do to use any other library.
	same as we do to use are attended
	any other lubrary.
=	Homecook - coassorigin
	The state of the s
	Shortest Program of JS - An Empty file Shortest Program of React -
_	Shortest Program of React -
	Jests of Medic -
	(body)
	\div id = " -+ " > / 1d: >
	(body)  (div id="boot") (Idiv)  (1body)
A 18 55	
10	(script
	STC= "greact development is
	104.407
	Script
	Src=" react-dom developement is
	Src=" - "react-dom developement;)
-	> (script)
	charment createstoments) stuff comes from
	React is just not limited to Browsers. React
	React is just not limited to Browsers. React also works on App Dev. etc.
	first file is core library of React. Second file is ever version of React.
299	Second file is web version of React.
	and minimum that I'm the minimum thing
	like for mendering & updating
	the DOM stuff

APCO-

React can exist without Typescript, JSX, Redux Date: / / - We can achieve the same thing as we did using Js. React create Element () can take 3 Arguments. Tag we are going to create - Type

3 what you need to put inside the Tag-children Const (heading = React create Element ("h1", 24, "Hello") This is not a (h1) Tag. It's a React Element (object) Const voot = React DOM. create Root (document: get Element By Id

("doot")); Creating a HTML Div as a React Root Element. nont nender (heading) ender() Method Takes on React Element into Root and modify DOM. Beauty of React is you can add React to your existing projects Also. Suppose if you a big project and your have to use React in search but you want can do that just make search bar as the noot you can just make header, froter or anything as not and use React inside it.

We can wrote (null) also instead of & 3 Date: We generally have one root element in React. React create Element ( h1' ( & y) (Hello) Crobat variable children are optional and we can pass as many as needed Properties of the object like className, id, Eventhandless and style etc. (All Tag Altributes) React create Element ( ¿ class Name: 'greeting'?, children '. welcome', (h) className="greeting"> Hello (i) "Mo." (/i). welcome ) groot gender () React will overside everything what is there existing inside your Root. React will Replace it with whatever you give inside sender.

=) {div id = "noot" ) Not Rendoed ( Idiv)

In generally practice we write Not Rendered inside root BCZ if any time in your app if you see Not Rendered that means most is not configured properly and React is not able to modify stuff inside Root.

Suppose if I mistype the name of Id assing

Const 2001- React creal
React DOM. create Root (Locument get Element By Id ('soott'));

then nort element will not be created/updated. I we see Not Rendered

If we put our React Code Above its CDN links then abviously well get errors.

Homework > Async & DEFER

writing the script Tags in Different orders matter.

Const container = React Create Element ('div',

(id: 'container's,

En [heading 1, heading 2]

when we have pass multiple children we pass it as an array.

React came up with writing HTML/CSS inside Javascript so that you don't have to go to HTML file again.

But React. create Element () is so complex for big projects & not user friendly. That's copy JSX came in picture.

A better way is to split our files code in Different files.

Cut the whole JS code and paste it to Appijs, and link it to index. html we can also make index. CSS and link it to Index. html in (head)

We saw Diff. CDN links in Reactions. 2 for Development

2 for production

A productions files contains similar code as Development files. But These are minified files and much more optimized for production use. (less file size) But we never inject our code like this

using CDN for production.

Heyne & Defer Attributes are boolean Attributes which are used along with script Tag to load the external scripts efficiently into

When you load a webpage there are two major things happening in browser

1) HTML Parsing
2) loading of Scripts

HTML files are just text files. Browser convert or parse it into DOM Tree to display it in the browser.

loading of Scripts contain two parts

1) fetching the Scripts from Network
2) Executing the Scripts

HTML Parsing
Scripts

Fetching Executions HTML Parsing

Scorpts

Fetch

Exe Scorpt Sonc=" " defear />
HTML Parising Scorpts fetch Exe.

### > without using Async / Defeat

HTML parsing goes on but as a soon as scripts are fetched from the Browner Network and there bethen they are executed. After that HTML parsing continuous.

# = with async tag.

HTML parsing goes on and the scripts are fetched in async manner/parallely After the scripts are fetched. The scripts get executed and after that HTML parsing Continuous.

#### = with Defer

HTML parsing goes on and the scripts are fetched parallely & only executed once the HTML passing is completed:

Async doesn't garaunty the order of exe. of scripts but Defer does. So, if we've multiple scripts as that are dependant to each other, In this case we should use Defer.

when loading externals script like google Analytic scripts which are independent of other scripts. Async is prefer