


Radhe-Radhe  Date.....

Radhe

~ Piyush Kumari Jha





Q. what is the difference between library & framework?

Solu:-

Library

less rules,  
chances are it is  
a library.

Framework

more rules  
chances are it's a  
framework

❖❖❖ Libraries provide developers with predefined functions and classes to make their work easier and boost the development process.

❖❖❖ Framework, on the other hand is like the foundation upon which developers build applications for specific platforms.

❖❖❖ By using a library, you can control the flow of the application and call the library.

❖❖❖ In contrast, when you use a framework, the control is inverted, i.e., the framework controls the flow and calls your code.

❖❖❖ Generally, libraries are a collection of helper modules, objects, classes, func., messages, templates, pre-written code etc.

❖❖❖ Frameworks consist of a lot of APIs, compilers, toolsets, support programs, libraries etc.

❖❖❖ Codes in libraries are geared toward a particular program or to solve a specific development problem. Therefore developers must modify library code to meet their needs.

❖❖❖ Despite the fact that frameworks generate new codes for developers. These codes cannot be altered or modified later. Unlike libraries frameworks do not allow new users to modify their pre-written codes, so you don't have to worry about deleting or changing them.



shortest program of Javascript → empty file.

1) shortest program of react → inject react Date.....  
file.

## ★ Before React

1) from simple html

```
<!DOCTYPE html>
<html>
<head>
  <title> Namaste React </title>
</head>
<body>
  <div id = "root">
    <h1> Namaste Everyone! </h1>
  </div>
</body>
</html>
```

2) from Javascript

```
<!DOCTYPE html>
<html>
  <head>
    <title> Namaste React </title>
  </head>
  <body>
    <div id = "root"> </div>
  </body>
  <script>
```

```
const heading = document.createElement("h1");
heading.innerHTML = "Namaste Everyone from Javascript";
const root = document.getElementById("root");
root.appendChild(heading);
```

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</script>  
</html>

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3) from React

&lt;!DOCTYPE html&gt;

&lt;html&gt;

&lt;head&gt;

&lt;title Namaste React &lt;/title&gt;

&lt;/head&gt;

&lt;body&gt;

&lt;div id="root"&gt; &lt;/div&gt;

&lt;/body&gt;

&lt;script&gt;

crossorigin

src = "https://unpkg.com/react@18/react.development.js"

&lt;/script&gt;

&lt;script&gt;

crossorigin

src = "https://unpkg.com/react-dom@18/umd/react-dom.development.js"

&lt;/script&gt;

&lt;script&gt;

const heading = React.createElement("h1", {}, "Namaste Everyone!");

const root = ReactDOM.createRoot(document.getElementById("root"));

// passing a react element inside the root

root.render(heading);

&lt;/script&gt;

&lt;/html&gt;

CDN  
links  
for React

for react library

for react-dom  
DOM → document  
object modelwe used DOM as  
we are changing our  
document.HTML attributes  
is mein agar ye  
id="title" → title  
id="title"



cdn → is basically faster way of fetching that code.

Date.....

Q difference between async and defer?

Solu:- Async allows your script to run as soon as it's loaded without blocking other element on the page. Defer means your script will only execute after the page has finished loading.

Q why do we use npm?

Solu:- Because our react is powered by a lot of things, a lot of packages, suppose we have to bundle things up, suppose we have to remove console logs, suppose we have to optimise our app for that we need a lot of helper packages and those helper packages come under npm.

Q what is package-lock.json?

Solu:- It is created for locking the dependency with the installed version. It will install the exact latest version of that package in your application and save it. It takes the screenshot of the installed dependencies.

React → core package

ReactDOM → package used to manipulate DOM

HMR } → Hot module Reloading (live server)  
watcher  
File watcher algorithm - <sup>written in</sup> (C++)

polyfill → ~~add~~ is code that implements a feature on web browsers that do not natively support the feature.

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