Introduction

Rendering the First React Code

```
const heading = React.createElement(
   "h1",
    { class: "Kartik" },
    "Hello World ! From React"
);
console.log(heading);

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

Render: Render function will take this object created by React.createElement and put it in the DOM

React.createElement - creates an object

How to create a nested HTML Structure inside React Js?

```
{ id: "parent" },
React.createElement(
    "div",
    { id: "child" },
    React.createElement("h1", {}, "Hey I am a H1 Tag")
)
);
console.log(parent);

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

At the end of the day, it is creating a <React.Element />

What if we want to create sibling?

```
const parent = React.createElement(
  "div",
    { id: "parent" },
    React.createElement("div", { id: "child" }, [
        React.createElement("h1", {}, "Hey I am a H1 Tag"),
        React.createElement("h1", {}, "Hey there I am a second h1 tag"))
);
```

We will be creating an array for creating the siblings

 But what if we want to create more siblings then the code will become very messy and will be difficult to read, so to overcome this problem we have a thing called "JSX"

Now you might be doubting that the sequence matters in the code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-</pre>
    <title>Document</title>
    <link rel="stylesheet" href="index.css" />
  </head>
  <body>
    <div id="root"></div>
            <script src="app.js"></script>
    <script
      crossorigin
      src="https://unpkg.com/react@18/umd/react.development.js"
    ></script>
    <script
      crossorigin
      src="https://unpkg.com/react-dom@18/umd/react-dom.developr
    ></script>
if we move this script tag to the top of the react script tag if
<!-- <script src="app.js"></script> -->
  </body>
</html>
```

Now what if we have some tags inside the root attribute

The root.render() will replace all the tags that are present in the root attribute with the elements that we have created.

What is the difference between a Library and a Framework?

A library targets a specific functionality while a Framework tries to provide everything that is required to develop an application.

Advantages:

React can be used in your old application also