1. Inception

Hello world using html

```
<h1>Hello World!</h1>
```

Hello world using Javascript

```
<!-- Hello World using javascript -->

<script>
    const heading= document.createElement("h1");
    heading.innerHTML="Hello World in JavaScript";

    //finding root
    const root=document.getElementById("root");

    //put heading inside root
    root.appendChild(heading);
```

Hello world using React

Add React CDN

Both React and ReactDOM are available over a CDN.

```
<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.development.js"></script>
```

Browser doesn't understand react so we need to add react cdn CDN- Content delivery network

This is website their react are hosted and we just pulling react into our project

1st file React.development.js - this is core file of react 2nd file React-dom.development.js- this is react library which is useful for DOM operations or this is react DOM which is need to modify DOM

```
<script>
const heading= React.createElement("h1",{},"hello world")
</script>
```

Here createElement method take 3 arguments

- 1. What tag we need to create
- 2. {}
- 3. What we need put inside it
- 2.{} is the place where you will give attributes to our tag

```
const heading=React.createElement("h1",{id:"heading"},"Hello World from React!");
const root=ReactDOM.createRoot(document.getElementById("root"));
```

Here heading is React element that is Javascript object

Revision

createElement createRoot render

App.js - React code

```
const heading= React.createElement("h1",{id:"heading"},"Hello World from React!");

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

Index.html -

Index.css- css code

Adding Css to H1 tag that id is heading

```
#Heading
{
    color:□red;
}
```

ReactElement (object) => HTML (Browser Understand)

How to create siblings here?

So for creating siblings we need to put into array

```
const parent=React.createElement(
    "div",
{id:"parent"},
React.createElement( "div",{id:"child"},
    [Meact.createElement("h1",{},"I'm H1 tag"),
React.createElement("h1",{},"I'm H2 tag")])
);

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

```
<div id="parent">
<div id="child">
<h1>I'm an H1 tag</h1>
<h2>I'm an H2 tag</h2>
</div>
<h1>I'm an H1 tag</h1>
<h2>I'm an H2 tag</h2>
</div>
</div>
if we want to create this type of structure
const parent=React.createElement( "div",{id:"parent"},
[React.createElement( "div",{id:"child"},
React.createElement("h1",{},"I'm H1 tag"),
React.createElement("h1",{},"I'm H2 tag")),
React.createElement( "div",{id:"child2"},
React.createElement("h1",{},"I'm H1 tag"),
React.createElement("h1",{},"I'm H2 tag"))]
);
```

But this is messy , it is very complicated to understand so this is why something known as JSX that exist

```
root.render(parent);
```

Here render putting parent object inside the root

If we have already something in root like It will replace by root.render(parent);

With this code

React only work inside div id root if we have code top of root or bottom of root It's code of html work as same

React is Library because react can be applied on small portion of page itself React can only work header or footer or sidebar

React only work in the place whatever you make root as

All framework require you to create app using that framework but React can work in existing app as well

Create repository on github

In vs code
Git init
Git branch -M main
Create README.md file
Git add .
Git commit -m "episode 1"

Git remote add origin - copy from github repository and paste - do just once Git push origin main