Fragments

In React, whenever you want to render something on the screen, you need to use a render method inside the component. This render method can return **single** elements or **multiple** elements. The render method will only render a single root node inside it at a time. However, if you want to return multiple elements, the render method will require a '**div**' tag and put the entire content or elements inside it. This extra node to the DOM sometimes results in the wrong formatting of your HTML output and also not loved by the many developers.

```jsx
import React from 'react'
class App extends React.Component {
render() {
return (
//Extraneous div element
<div>
<h2> Hello World! </h2>
<p> Welcome to the Tuplescale. </p>
</div>
);
}
}
```

Example:2
```jsx
import React from "react";
class App extends React.Component {
render() {
return (
<React.Fragment>
<h2> Hello World! </h2>
<p> Welcome to the Tuplescale. </p>
</React.Fragment>
);
}
}
```

Why we use Fragments?

The main reason to use Fragments tag is:

      1.It makes the execution of code faster as compared to the div tag.

      2.It takes less memory.

```jsx
import React from "react";
class App extends React.Component {
render() {
return (
<React.Fragment>
<h2> Welcome </h2>
<p> You are in the world of ReactJS. </p>
</React.Fragment>
);
}
}
```

Importance of React Fragments:

•The execution of code is faster with the use of React fragments as compared to the div tag.

•Less memory is utilised with the use of React fragments as compared to the div tag.

use fragment in React js

React Fragments help wrap multiple elements/components together as it is better optimized, but **they should only be used when needed**. If one needs a wrapper for JSX styling, use a div instead. If you want to learn React.