**React JSX**

JSX stands for JavaScript XML.

JSX allows us to write HTML in React.

JSX makes it easier to write and add HTML in React.

To write HTML on multiple lines, put the HTML inside parentheses:

Example :

const myelement = (

<ul>

<li>Apples</li>

<li>Bananas</li>

<li>Cherries</li>

</ul>

);

We can use a "fragment" to wrap multiple lines. This will prevent unnecessarily adding extra nodes to the DOM.

A fragment looks like an empty HTML tag: <> </>.

React supports if statements, but not inside JSX.

Example :

Write "Hello" if x is less than 10, otherwise "Goodbye":

const x = 5;

const myelement = <h1>{(x) < 10 ? "Hello" : "Goodbye"}</h1>;

**Real DOM vs Virtual DOM**

**Real DOM Virtual DOM**

Updates are slow Updates are fast

You can update HTML directly. You Can’t directly update HTML

It causes too much of memory wastage There is no memory wastage

Creates a new DOM if element updates It updates the JSX if element update