Assignment-3

* What is JSX?

Jsx is allows to use the HTML in React.

And making it easier to describe the structure and behavior of a component. Although JSX is not valid JavaScript or HTML on its own, it is transformed into JavaScript that browsers can run efficiently.

* Superpowers of JSX.

The **superpowers of JSX** make it an essential tool for building modern web applications with React. JSX provides a clean, readable syntax for building UIs, makes it easy to integrate JavaScript expressions, supports dynamic behavior and state-driven rendering, and allows for reusable components.

* Role of type attribute in script tag? What options can I use there?

The type **attribute** in a <script> tag specifies the type of the script being used, which helps the browser understand how to interpret and execute the code within the script tag

* {TitleComponent} vs {<TitleComponent/>} vs {<TitleComponent></TitleComponent>} in JSX

{TitleComponent}, {<TitleComponent />}, and {<TitleComponent></TitleComponent>} represent different ways to use or render a component.

{TitleComponent}

This syntax refers to the **JavaScript reference** to the TitleComponent function or class component, but **it does not render the component**.

{<TitleComponent />}

This is the **correct JSX syntax** for rendering a component. The {} in JSX is used to **embed JavaScript expressions**, and inside the curly braces, you are rendering the component itself.