1. What is JSX ?

* JSX is an HTML-like syntax used by react
* The syntax is used by a preprocessor(babel) to transform HTML-like syntax to a javascript element
* JSX is neither HTML nor string
* JSX code is converted React createElement that is converted to HTML and rendered into DOM
* Babel transforms these expressions into javascript code

<h1>Hello World</h1> -> jsx statement

React.createElement(“h1”,null,”Hello World”) -> babel converts above JSX code this.

1. SuperPowers of JSX ?

* Can write HTML-like code in react which is translated by babel
* It helps to write code quickly instead of writing React.createElement each time, If we have a complex structure it's difficult to write using React.createElement.
* Can write JS code inside {braces}
* Can write inline styles as Object
* Prevents Injection Attacks(XSS attack) -> By default react dom escapes any values embedded in JSX before rending.
* Can write self-closing tag <Title />
* Easily to specify children
  + Const heading = (

<div>

<h1>Hello</h1>

<h1>Hi</h1>

</div>

);

* Can embed expression in jsx
  + Const name =”nalini”;

Const ele = <h1>Welcome {nalini}</h1>

1. What are the roles of the type attribute in the script tag? What options can I use there?

* Attributes types

classic script, a JavaScript module, an import map, or a data block.

1. Indicates that the script is a "classic script", containing JavaScript code
2. This value causes the code to be treated as a JavaScript module. The processing of the script contents is deferred. The charset and defer attributes have no effect.
3. This value indicates that the body of the element contains an import map
4. The embedded content is treated as a data block, and won't be processed by the browser.

4. What is the difference between {Title} vs {<Title/>} vs {<Title></Title>} ?

* {Title} - represent react element, react element can be rendered inside {}
* {<Title />} - jsx support self closing tag, this represent react component, we render react component inside < /> or {< />} both are same
* {<Title></Title>} - its similar to rendering <Title />, react supports both self closing and <></>