

1. How does JSX differ from HTML?  
JSX is a JavaScript extension that allows writing HTML-like code within JavaScript, while HTML is the standard markup language for creating web pages.
2. Why is JSX used in React?  
JSX simplifies UI development with its declarative syntax, making it easier to define and render React components.
3. Can you embed JavaScript expressions in JSX? If so, how?  
Yes, you can embed JavaScript expressions in JSX using curly braces.
4. How do you write comments in JSX?  
Comments in JSX are written with `{/* this is a comment */}` and must be inside the top-level element.
5. Explain the significance of curly braces `{}` in JSX  
Curly braces in JSX are used to insert dynamic data, variables, or expressions into the rendered content.
6. Can JSX be directly rendered to the DOM?  
JSX cannot be directly rendered to the DOM; it needs to be transpired into standard JavaScript using tools like Babel.
7. What is the purpose of Babel in relation to JSX?  
Babel transpires JSX code into regular JavaScript so that it can be executed in web browsers.
8. Practice JSX syntax listed on the slide with code examples.

Example 1)

```
const items = ['Mango', 'Banana', 'Orange'];

const listItems = (

  <ul>

    {items.map(item => <li key={item}>{item}</li>)}

  </ul>

);
```

Example 2)

```
const name = 'Yitbarek';

const sayHi = <h1>Hi, {name}!</h1>;
```