

Assignment#02

1. How does JSX differ from HTML?

Answer: JSX (JavaScript XML) is a syntax extension for JavaScript that is commonly used in React to describe the structure and elements of the user interface. JSX allows you to write HTML-like code within JavaScript, making it easier to define and render React components. So, JSX differ from HTML by:

- Syntax
- Expression
- Comment
- Attributes
-

2. Why is JSX used in React?

Answer: JSX is a JavaScript extension that provides a syntax similar to HTML. It allows you to define React elements using a familiar markup-like structure.

JSX code tends to be more readable and maintainable, as it resembles the structure of the rendered UI. It makes it easier to understand the component's hierarchy.

3. Can you embed JavaScript expressions in JSX? If so, how?

Answer: Yes, we can embed JavaScript expressions within JSX by wrapping them in curly braces `{}`. This allows dynamically insert values, execute functions, or perform any JavaScript operations within JSX elements.

4. How do you write comments in JSX?

Answer: By using this `{/* this is a comment */}`

5. Explain the significance of curly braces `{}` in JSX.

Answer: To insert dynamic data, variables, or expressions into the rendered content, curly braces `{}` inside JSX elements. Cannot use statements.

6. Can JSX be directly rendered to the DOM?

Answer: JSX cannot be directly rendered to the DOM, it serves as a convenient way to define React components, which can be rendered to the DOM using React's rendering methods.

7. What is the purpose of Babel in relation to JSX?

Answer: JSX is not standard JavaScript syntax; it is a syntax extension of JavaScript. Browsers cannot recognize it on their own; it needs to be parsed by a parsing tool before it can run in the browser. So Babel is actually a parsing tool that parses JSX so that browsers can easily understand it.

8. Practice JSX syntax listed on the slide with code examples:

here is link of my practice:

https://github.com/ayesha-riaz-miu/ayesha-riaz-miu.github.io/tree/main/SD-545/w1d2_React