IST 363

# Lab 10

## react 1

1. A computer screen shot of code

AI-generated content may be incorrect.

2. A screen shot of a computer program

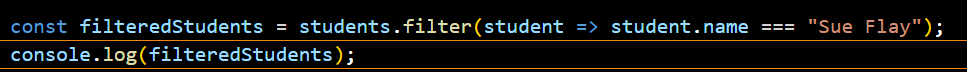
AI-generated content may be incorrect.

3. A computer screen shot of code

AI-generated content may be incorrect.

4. A computer screen with text

AI-generated content may be incorrect.

5. 

6. write brief answers to the questions below

a. In React, a component is a reusable, self-contained unit defines a part of the user interface.

b. In JSX, you use Pascal case (upper camel case) for naming in order to differentiate them from HTML elements because React treats lowercase names as standard HTML tags.

c. JSX is a syntax extension for JS looks like HTML but it allows JS expressions within curly braces. It also uses className instead of class, and the void tags need ‘/’ at the end to close them.

d. JSX uses className instead of class because it helps to avoid conflicts with HTML while still applying CSS classes in the code.

e. JS expressions can be inserted into JSX by wrapping them in curly braces. This allows for dynamic values such as variables or calculations.

f. Breaking large components into smaller ones improves maintainability, reusability, readability, and testability. It also leads to cleaner code.

g. You should refactor a component when it becomes too large, difficult to maintain, or has parts that can be reused for other components.

h. Yes, components can be reused by including them multiple times with different props for customization.

i. React handles form elements as “controlled components”, meaning their values are tied to events, ensuring a consistent and predictable user input.