#### ( Class 3 Notes ) React JSX & Components 🔧 React ka Compiler

* React ka compiler **Node.js** hota hai.
* Compiler ka kaam hota hai: human-readable code ko **machine code** me convert karna.
* React project ke package.json file me likha hota hai ke kaun kaun si **libraries** use ho rahi hain.
* Har library bhi JavaScript ka code hota hai — jo kisi experienced developer ne **open-source** banaya hota hai, taake sab use kar sakein.

#### 🔠 ****Letter Case Styles****

* lowercase → zeeshanali
* UPPERCASE → ZEESHANALI
* camelCase → zeeshanAli
* snake\_case → zeeshan\_ali
* PascalCase → ZeeshanAli

✅ Functions ya variables React/JSX me mostly **camelCase** me likhe jaate hain.

### **💡 JSX (JavaScript XML)**

* JSX ka full form: **JavaScript + XML (Extensible Markup Language)**
* JSX allow karta hai ke aap ek hi component me **HTML-like structure + JS code** likh sako.

#### ❓ What is JS Expression?

* JSX ke andar aap JavaScript ka code likh sakte ho using **curly brackets {}**.
* Agar aap JSX ke bahar likho to wo **normal JavaScript** ban jaata hai.

const name = "Zeeshan";

<h1>{name}</h1> // JSX expression

### **🎨 Inline Styling in React**

* React me jab aap **inline styling** use karte ho, to usko HTML me "tag" kehte hain, lekin React (JSX/XML) me **prop** ya **property** kehte hain.
* Inline style me aapko:  
  1. JavaScript expression banana hota hai → {}
  2. Uske andar ek **object** hota hai
  3. Object me keys camelCase hoti hain (jaise fontSize, backgroundColor)

const styleObj = {

fontSize: "20px",  
  
color: "red"  
  
};  
  
<h1 style={styleObj}>Hello</h1>  
  
**📤 Code Sharing Tips**

#### ✅ How to Share Your Project:

1. Project folder open karo → **Select All**
2. Do files ko unselect karo:  
   * node\_modules
   * .git
3. Baaki sab ko zip me convert karo aur send kar do.

#### 📥 How to Run Someone Else's Code:

1. Zip ko unzip karo
2. VS Code ya terminal me open karo
3. Run these commands

npm install & then npm start  
  
App run ho jaayegi ✅