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| ✅ Correct Concepts:   * Outdated browsers (like IE11) don’t support modern JavaScript (ES6+). * Babel is a JavaScript transpiler that converts modern JS (e.g., let, const, arrow functions, async/await, etc.) into older syntax that can run on those outdated browsers. * Browserslist is a configuration used to define which browsers version you want to support. * Babel uses Browserslist to determine how much transpilation is needed. |

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| In order to build our project-  Cmd: npx parcel index.html    Now we can use  Cmd: npm run start    To build  Cmd: npm run build |

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| Correction- parcel doesn’t automatically removes console.log from the JS script.  We need to install.  “babel-plugin-transform-remove-console”  npm install babel-plugin-transform-remove-console --save-dev  After installing it, it will get added in devDependencies in package.json and its code will be added in node module.  Now we need configure it. Build command will not work before configuring.    Now build the project.  **Good practice**- Delete dist folder when you are building the project. |

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| We must add keys to childs of div.    For more details, view react doc, search- key reconcilation. |

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| **How does React.createElement works?**  React.createElement returns oject, that object is convert into html code and put it in the dom. |

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| Suppose we want to create below structure.    If we use React.createElement to do so, there will be a hugh mess of code.  To counter this **JSX** is introduced |

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| Below code is JSX    Heading2 is a react element.  Under brackets. It is knowns as JSX expression.  JSX- It is html like syntax but it is not html inside JS.  Execution JSX code.    Babbel converts JSX to React.createElement which gives object and later pushed into html DOM.  Babel comes along with parcel |

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| **Advantages of JSX.**   * Readability. * Less code. * Syntactical sugar * No Repetition |

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| **React component**   1. **Functional component**   Function component is a JS function which returns JSX expression  Eg-    Valid Functional component.       |  | | --- | | Syntax1    Syntax2    Syntax3    Syntax 4 |  |  | | --- | | Rendering React element |  |  | | --- | | Rendering React component |  |  | | --- | | React element      React component | |

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| In the curly brackets we can write any piece of javascript code.  In above example we can see used component inside component function. This is called **component composition**.  JSX senetises data and avoids cross site scripting attack/  Below will also work |