

- * All the names of the components start with a capital letter
- * Components are created using functions

* <Greet /> * good coding practice

* under sources creates Heading.js^(component) file
everytime import react to convert into pure JS from JSX

```
import React from 'react'
function Heading () {
  return <h1>Hello World!</h1>
}
export default Heading;
```

under under.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import Heading from './Heading';
ReactDom.render (
<div>
  <Heading />
  <p> I am fine </p>
<div>, document.getElementById("root")
);
```

in ES6 you don't have to mention the extension of the file like .js or .jsx

generally we import everything in App.js

```
import React from "react";
import Heading from "./Heading";
import List from "./List"

function App() {
  return <div>
    <Heading />
    <List />
  </div>
}

export default App;
```

App.js

```
import React from "react";
import ReactDOM from "react-dom";
import App from "./App";

ReactDOM.render(<App />, document.getElementById("root"));
```

Index.js

* Always make a folder of name **Components** and push all components there

* If I want to export other than default then it should be written as

export {DoublePi, TriplePi};

in import import {DoublePi, TriplePi} from "

Here the names actually matter but with default export no

* Can only be one default export per file

Math.js

```
const pi = 3.1415962;

function doublePi() {
    return pi * 2;
}

function triplePi() {
    return pi * 3;
}

export default pi;
export { doublePi, triplePi };
```

Index.js

```
import React from "react";
import ReactDOM from "react-dom";
import PI, { doublePi, triplePi } from "./math.js";

ReactDOM.render(
    <ul>
        <li>{PI}</li>
        <li>{doublePi()}</li> → doublePi are functions
        <li>{triplePi()}</li> → triplePi
    </ul>,
    document.getElementById("root")
);
```

wild card export discouraged

import * as pi from "/math.js"

Now no difference between default and other exports
an object will be returned with the names of pi

Object: {
 doublePi: function doublePi(),
 triplePi: function triplePi(),
 default: 3.1415962,
}

```
import React from "react";
import ReactDOM from "react-dom";
import * as pi from "./math.js";

ReactDOM.render(
    <ul>
        <li>{pi.default}</li>
        <li>{pi.doublePi()}</li>
        <li>{pi.triplePi()}</li>
    </ul>,
    document.getElementById("root")
);
```

Keeper App

```
//1. Create a new React app.  
//2. Create a App.jsx component.  
//3. Create a Header.jsx component that renders a <header> element  
//to show the Keeper App name in an <h1>.  
//4. Create a Footer.jsx component that renders a <footer> element  
//to show a copyright message in a <p> with a dynamically updated year.  
//5. Create a Note.jsx component to show a <div> element with a  
<h1> for a title and a <p> for the content.  
//6. Make sure that the final website is styled like the example shown here:  
https://w00gz.csb.app/  
//HINT: You will need to study the classes in teh styles.css file to apply styling.
```

