Statement Purpose:

To familiarize the students with

- React Lists
- React Class
- React Conditionals
- React props

List items

Attribute Class

1. Create class in "App.css"

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './App.css';

const myElement = <h1 className="myclass">Hello World</h1>;

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(myElement);
export default myElement;
```

Conditions

1. Sample code

```
import React from 'react';
import ReactDOM from 'react-dom/client';
```

```
const x = 5;
let text = "Goodbye";
if (x < 10) {
   text = "Congratulation! Victory";
}

const myElement = <h1>{text}</h1>;

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(myElement);
export default myElement;
```

2. Sample code 2:

Use ternary

```
import React from 'react';
import ReactDOM from 'react-dom/client';

const x = 5;

const myElement = <h1>{(x) < 10 ? "Congratulations!Victory" : "Goodbye"}</h1>;

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(myElement);
export default myElement;
```

Exercise

Render a element without using JSX.
 Hint

- i. const paragraph = React.createElement(____, {}, 'This is a paragraph without using JSX!');
- ii. const paragraph = ___ This is a paragraph using JSX! ___
- 2. write a code to complete this statement that renders a JavaScript expression inside JSX.
 - a. const myelement = ___ React is __ 10*10___ times better with JSX! ___;
- 3. write a code to complete this expression to include a class attribute the way JSX supports
 - a. const title = <h1 ____ ="primary">Hello World!</h1>;

React Component

1. Create a Class component called Branch

```
class Branch extends React.Component {
  render() {
    return <h2>Bank Branches!</h2>;
  }
}
2. Create a Function component called Branch
function Branch() {
  return <h2> Bank Branches </h2>;
}
```

Rendering Components

Sample Code

```
import React from 'react';
import ReactDOM from 'react-dom/client';

function FYP() {
    return <h2>Final Year Project</h2>;
}

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<FYP />);

export default FYP;
```

Props

Components can be passed as props, which stands for properties.

```
import React from 'react';
import ReactDOM from 'react-dom/client';

function Branch(props) {
    return <h2>This is a {props.color} Branch!</h2>;
}
const root = ReactDOM.createRoot(document.getElementByld('root'));
root.render(<Branch color="F7"/>);
export default Branch;
```

Component in a component

import React from 'react';

Exercise:

- 1. Write a code to print person name using React component.
- 2. Print Hello, Ahmed by creating a variable named **name** and pass it to the **Message** component.