State in react

Why Use State ?

- Props are immutable.
- Value which can change dynamically.

What is a State ?

- State is an object that holds information to control behaviour of a component.

Props v/s State

- Props are passed to the component.
- State is contained inside the component.
- Props are immutable.
- State can be changed.
- Props are like parameters passed to a function.
- State is like a variable declared in function body.

```jsx
import { useState } from "react";

export default function Counter() {
  const [count, setCount] = useState(0);
  function increment() {
    setCount(count + 1);
  }
  function decrement() {
    setCount(count - 1);
  }
  return (
    <div>
      <h1>Count value is: {count}</h1>
      <button onClick={increment}>Increment</button>
      <button onClick={decrement}>Decrement</button>
    </div>
  );
}
// useState(0) is used to set the count zero when the component is called first.
```

Creating Multiple States In React

Hello.jsx   Hello1.jsx   main.jsx   index.html   App.jsx M   Message1.jsx

src > components > Counter.jsx > Counter

```jsx
import { useState } from "react";

export default function Counter() {
  const [count, setCount] = useState(0);
  const [incrementBy, setIncrementBy] = useState(1);
  function increment() {
    setCount(count + incrementBy);
  }
  function decrement() {
    setCount(count - 1);
  }
  function increaseIncrement() {
    setIncrementBy(incrementBy + 1);
  }
  function decreaseIncrement() {
    setIncrementBy(incrementBy - 1);
  }
  return (
    <div>
      <h1>Count value is: {count}</h1>
      <button onClick={increment}>Increment</button>
      <button onClick={decrement}>Decrement</button>
      <h1>We are incrementing the value by: {incrementBy}</h1>
      <button onClick={increaseIncrement}>Increase Increment</button>
      <button onClick={decreaseIncrement}>Decrease Increment</button>
    </div>
  );
}
// useState(0) is used to set the count zero when the component is called first.
```