useEffect

Why do we need to use useEffect?

How to use it

```
useEffect(() => {
  console.log("useEffect");
});
```

it is useEffect and every time renderer is run you can see console log you can't see any differences.

but useEffect gets a dependency list and when you set your variable in it when that variable change the useEffect run the code inside its self

```
useEffect(() => {
  console.log("useEffect");
},[state]);
```

if you use empty list it'll run just one time and that time is when the component mount

```
useEffect(() => {
  console.log("useEffect");
},[]);
```

you can run some codes when the component unmounts like this

```
  useEffect(() => {
    console.log("useEffect");
    return () =>{
      console.log("clean up");
    }
  },[]);
```

to show that in project we need to add clean up button and cleanUp function to clear everything we record and add this useEffect in Record component

```
import React, { useEffect } from "react";
import "./App.css";
import Record from "./components/Record";

export const App = () => {
  const [state, setState] = React.useState(0);
  const [record, setRecord] = React.useState([]);
  const increase = () => {
    setState(state + 1);
  };

  const decrease = () => {
    setState(state - 1);
  };

  const recordCounter = () => {
    setRecord([ ... record, state]);
    console.log(record);
  };

  const cleanUp = () => {
```

```
    setRecord([]);
  };

  const style = {
    color: "#fff",
    backgroundColor: "#f15e5e",
    border: "none",
    borderRadius: "10px",
    margin: "10px",
    minWidth: "30px",
    height: "30px",
    alignItems: "center",
  };

  return (
    <>
      <div className="container">
        <h1>Counter</h1>
        <div
          style={{
            display: "flex",
            justifyContent: "center",
            alignItems: "center",
          }}
        >
          <button onClick={decrease} style={style}>
            -
          </button>
          <h2>{state}</h2>
          <button onClick={increase} style={style}>
            +
          </button>
```

```
      </div>
      <button style={style} onClick={recordCounter}>
        record
      </button>
      <button style={style} onClick={cleanUp}>
      clean up
      </button>
      <div>
        <h2 style={{ textAlign: "center" }}>Counter History</h2>
        <div style={{ display: "flex", justifyContent: "center" }}>
          <div style={{ display: "flex" }}>
            {record.map((item, index) => {
              return(<Record key={index} item={item}/>)
            })}
          </div>
        </div>
      </div>
    </div>
  </>
  );
};

export default App;
```

```
import React, { useEffect } from "react"

export default function Record(props) {
  useEffect(() => {
    console.log("useEffect");
    return () =>{
      console.log("clean up");
```

```
        }
    },[]);
    return (
        <div
          style={{
            display: "flex",
            justifyContent: "center",
            alignItems: "center",
            flexDirection: "column",
            border: "1px solid #000",
            width: "100px",
            borderRadius: "10px",
            margin: "10px",
          }}
        >
          <h4>Record</h4>
          <p>{props.item}</p>
        </div>
    );
  }
```

Warning

You can't call it inside loops or conditions. If you need that, extract a new component and move the state into it.