SandBox Url: <https://codesandbox.io/p/sandbox/dazzling-frost-qjr9dr>

Explanation:

This React component simulates a light bulb that toggles its state (ON/OFF) every second using React's useState and setTimeout. Here's a breakdown:

**🔧 Code Explanation:**

import { useState } from "react";

import "./styles.css";

* **useState**: A React hook to manage component state.
* **"./styles.css"**: External stylesheet is being imported.

**🔄 Inside the Component:**

export default function Bulb() {

const [isBulbOn, setIsBulbOn] = useState(false);

* **isBulbOn**: A state variable that represents whether the bulb is ON (true) or OFF (false).
* **setIsBulbOn**: Function to change the value of isBulbOn.
* **useState(false)**: Bulb starts OFF.

**🔁 Auto Toggle with setTimeout**

setTimeout(() => {

setIsBulbOn(!isBulbOn);

}, 1000);

* Every **1000 milliseconds (1 second)**, the setIsBulbOn function toggles the bulb's state.
* !isBulbOn: If it's ON, turn it OFF; if it's OFF, turn it ON.

❗️**Important Note**: This will cause **an infinite loop** of re-renders because setTimeout is called **on every render**, and each state update triggers a re-render.