6. useLayoutEffect — Render-এর আগে effect চালানো(works same as useEffect only difference is "when it's run".It run synchronously)

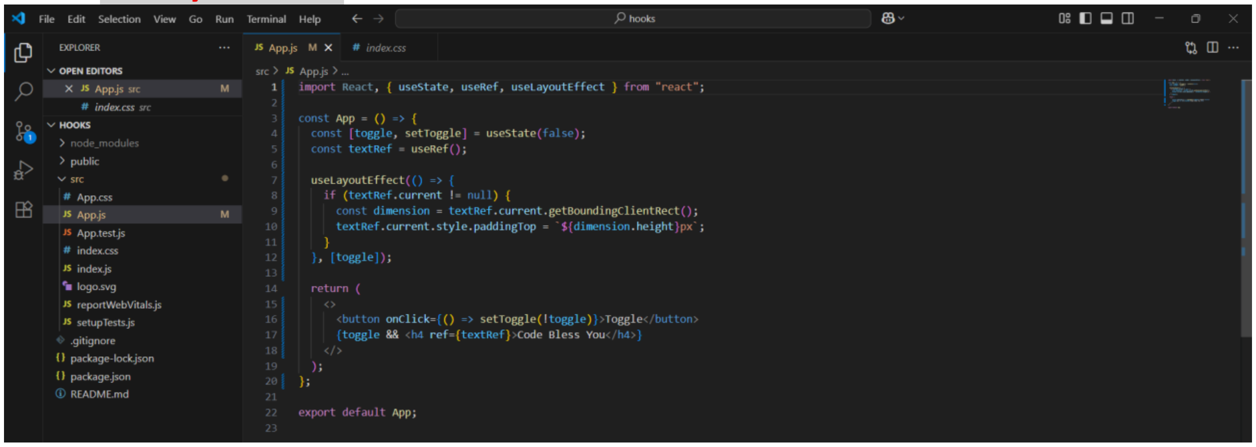
- **useEffect** Runs After the DOM is printed on the browser.
- **useLayoutEffect** runs Before the DOM is printed on the browser

কাজ: DOM layout measure বা style sync করার জন্য render হওয়ার সাথে সাথেই কাজ চালানো।

উদাহরণ: Element-এর height measure করে সেট করা।(most common use case of **useLayoutEffect** is to get the dimension of layout)

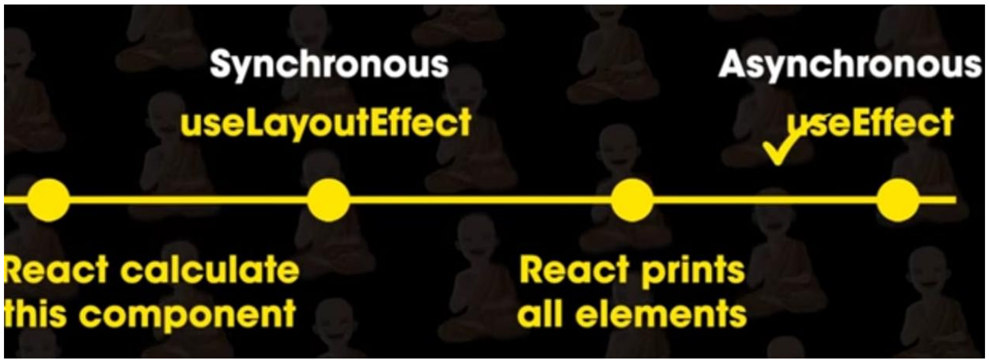
```
 useLayoutEffect(() => {
   if (textRef.current) {
     const dimension = textRef.current.getBoundingClientRect();
     textRef.current.style.paddingTop = ${dimension.height}px;
   }
 }, [toggle]);
```

- **useLayoutEffect will always runs first. useLayoutEffect print before the DOM.**
- **99% time we use useEffect but when it is not working then we use useLayoutEffect**



```
import React, { useState, useRef, useLayoutEffect } from "react";

const App = () => {
  const [toggle, setToggle] = useState(false);
  const textRef = useRef();

  useLayoutEffect(() => {
    if (textRef.current != null) {
      const dimension = textRef.current.getBoundingClientRect();
      textRef.current.style.paddingTop = `${dimension.height}px`;
    }
  }, [toggle]);

  return (
    <>
      <button onClick={() => setToggle(!toggle)}>Toggle</button>
      {toggle && <h4 ref={textRef}>Code Bless You</h4>}
    </>
  );
};

export default App;
```

Work Flow:


Synchronous
useLayoutEffect
Asynchronous
useEffect
React calculate this component
React prints all elements