Name: Abdur R. Qureshi

Roll No: 242466

Practical No: 9

Date Of Performance: 25/09/2025

Aim: Implementation of React useState, useEffect, useContext

Q) Create functional components to demonstrate useState

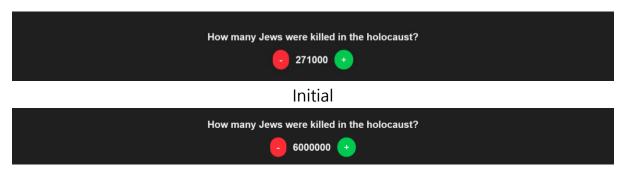
CODE (Nose):

```
"use client"
                                                                 <h2 className="text-2xl font-
                                                    bold">How many Jews were killed in the
import { useState } from "react"
                                                    holocaust?</h2>
                                                                 <div className="flex items-
                                                    center gap-4">
export const Nose = () => {
                                                                     <button
    const [count, setCount] =
                                                                         onClick={decrement}
useState(271000)
                                                                         className="px-4 py-2
                                                    bg-red-500 text-2xl text-white rounded-full
                                                    hover:bg-red-600"
    const increment = () => {
        setCount(count + 1)
                                                                     </button>
                                                                     <span className="text-2xl</pre>
    const decrement = () => {
                                                    font-bold">{count}</span>
        if (count < 271001) {
            alert("You can't go below the
                                                                     <button
                                                                         onClick={increment}
actual number of Jews killed in the
                                                                         className="px-4 py-2
holocaust.")
                                                    bg-green-500 text-2xl text-white rounded-
        }
                                                    full hover:bg-green-600"
        else {
            setCount(count - 1)
                                                                     </button>
    }
                                                                 </div>
                                                             </section>
    return (
                                                        )
        <section className="h-screen flex</pre>
flex-col items-center justify-center gap-
                                                    }
```

CODE (Rendering):

```
import { Nose } from "./components/Nose";
```

OUTPUT:

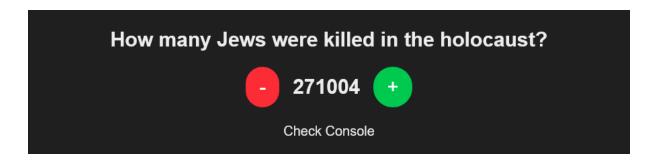


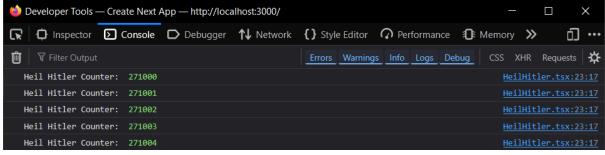
Incremented Value (Propaganda)

Q) Create functional components to demonstrate useEffect CODE (HeilHitler):

```
"use client"
                                                            <section className="h-screen flex</pre>
                                                    flex-col items-center justify-center gap-
import { useEffect, useState } from "react"
                                                    4">
                                                                 <h2 className="text-2xl font-
                                                    bold">How many Jews were killed in the
export const HeilHitler = () => {
                                                    holocaust?</h2>
    const [count, setCount] =
                                                                 <div className="flex items-</pre>
                                                    center gap-4">
useState(271000)
                                                                     <button
    const increment = () => {
                                                                         onClick={decrement}
        setCount(count + 1)
                                                                         className="px-4 py-2
                                                    bg-red-500 text-2xl text-white rounded-full
                                                    hover:bg-red-600"
    const decrement = () => {
        if (count < 271001) {
                                                                     </button>
            alert("You can't go below the
                                                                     <span className="text-2xl</pre>
actual number of Jews killed in the
                                                    font-bold">{count}</span>
holocaust.")
        }
                                                                     <button
                                                                         onClick={increment}
                                                                         className="px-4 py-2
            setCount(count - 1)
                                                    bg-green-500 text-2xl text-white rounded-
                                                    full hover:bg-green-600"
    }
    useEffect(() => {
                                                                     </button>
        console.log("Heil Hitler Counter:
                                                                 </div>
", count);
                                                                 Check Console
   }, [count])
                                                             </section>
                                                        )
    return (
```

OUTPUT:





Console

Q) Create functional components to demonstrate useContext

CODE (Animals):

```
import { useState, createContext,
useContext } from "react"

const CounterContext = createContext({
    count: 271000,
    increment: () => { },
    decrement: () => { }
})

const CounterProvider = ({ children }: {
    children: React.ReactNode }) => {
```

```
const [count, setCount] =
useState(271000)

const increment = () => setCount(count
+ 1)
    const decrement = () => {
        if (count <= 271000) {
            alert("You can't go below the
actual number of Jews killed in the
holocaust.")
    } else {
        setCount(count - 1)
}</pre>
```

```
}
                                                                                                                                                                                                                      <button onClick={decrement}</pre>
                                                                                                                                                                  className="px-4 py-2 bg-red-500 text-white
             return (
                                                                                                                                                                  rounded-full">
                          <CounterContext.Provider value={{
count, increment, decrement }}>
                                       {children}
                                                                                                                                                                                                                      </button>
                                                                                                                                                                                                                      <span className="text-2xl</pre>
                         </CounterContext.Provider>
                                                                                                                                                                   font-bold">{count}</span>
             )
}
                                                                                                                                                                                                                      <button onClick={increment}</pre>
                                                                                                                                                                   className="px-4 py-2 bg-green-500 text-
const useCounter = () =>
useContext(CounterContext)
                                                                                                                                                                   white rounded-full">
                                                                                                                                                                                                                     </button>
export const Counter = () => {
             const { count, increment, decrement } =
                                                                                                                                                                                                         </div>
useCounter()
                                                                                                                                                                                            </section>
             return (
                         <section className="h-screen flex</pre>
                                                                                                                                                                   export const HolocaustCounter = () => (
flex-col items-center justify-center gap-
                                                                                                                                                                               <CounterProvider>
                                      <h2 className="text-2xl font-
                                                                                                                                                                                            <Counter />
bold">Gassed Jews Counter</h2>
                                                                                                                                                                               </CounterProvider>
                                      <div className="flex items-
center gap-4">
CODE (Rendering):
import HolocaustCounter from "./components/HolocaustCounter";
export default function Home() {
      return (
                   <holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdraght<br/><holdr
      );
```

OUTPUT:

