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Practical No: 9

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Aim: Implementation of React useState, useEffect, useContext

Q) Create functional components to demonstrate useState

### CODE (Nose):

```
"use client"

import { useState } from "react"

export const Nose = () => {

  const [count, setCount] =
    useState(271000)

  const increment = () => {
    setCount(count + 1)
  }

  const decrement = () => {
    if (count < 271001) {
      alert("You can't go below the
actual number of Jews killed in the
holocaust.")
    }
    else {
      setCount(count - 1)
    }
  }

  return (
    <section className="h-screen flex
flex-col items-center justify-center gap-
4">

      <h2 className="text-2xl font-
bold">How many Jews were killed in the
holocaust?</h2>

      <div className="flex items-
center gap-4">

        <button
          onClick={decrement}
          className="px-4 py-2
bg-red-500 text-2xl text-white rounded-full
hover:bg-red-600"
        >
          -
        </button>

        <span className="text-2xl
font-bold">{count}</span>

        <button
          onClick={increment}
          className="px-4 py-2
bg-green-500 text-2xl text-white rounded-
full hover:bg-green-600"
        >
          +
        </button>

      </div>

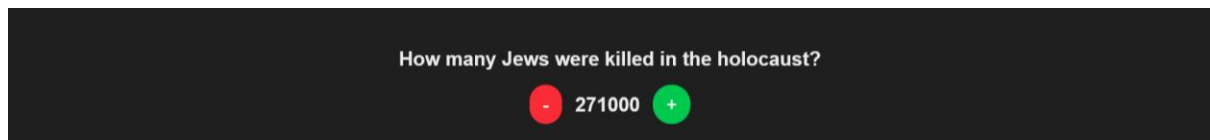
    </section>
  )
}
```

### CODE (Rendering):

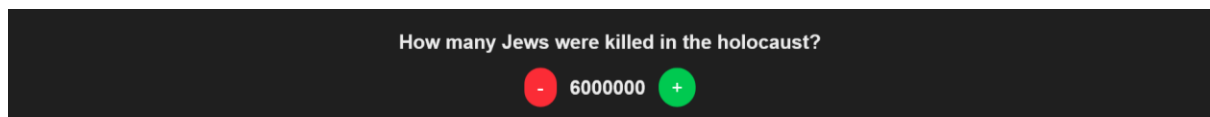
```
import { Nose } from "../components/Nose";
```

```
export default function Home() {
  return (
    <>
      <Nose />
    </>
  );
}
```

## OUTPUT:



Initial



Incremented Value (Propaganda)

Q) Create functional components to demonstrate useEffect

## CODE (HeilHitler):

```
"use client"

import { useEffect, useState } from "react"

export const HeilHitler = () => {

  const [count, setCount] =
    useState(271000)

  const increment = () => {
    setCount(count + 1)
  }

  const decrement = () => {
    if (count < 271001) {
      alert("You can't go below the
actual number of Jews killed in the
holocaust.")
    }
    else {
      setCount(count - 1)
    }
  }

  useEffect(() => {
    console.log("Heil Hitler Counter:
", count);
  }, [count])

  return (
    <section className="h-screen flex
flex-col items-center justify-center gap-
4">
      <h2 className="text-2xl font-
bold">How many Jews were killed in the
holocaust?</h2>
      <div className="flex items-
center gap-4">
        <button
          onClick={decrement}
          className="px-4 py-2
bg-red-500 text-2xl text-white rounded-full
hover:bg-red-600"
        >
          -
        </button>
        <span className="text-2xl
font-bold">{count}</span>
        <button
          onClick={increment}
          className="px-4 py-2
bg-green-500 text-2xl text-white rounded-
full hover:bg-green-600"
        >
          +
        </button>
      </div>
      <p>Check Console</p>
    </section>
  )
}
```

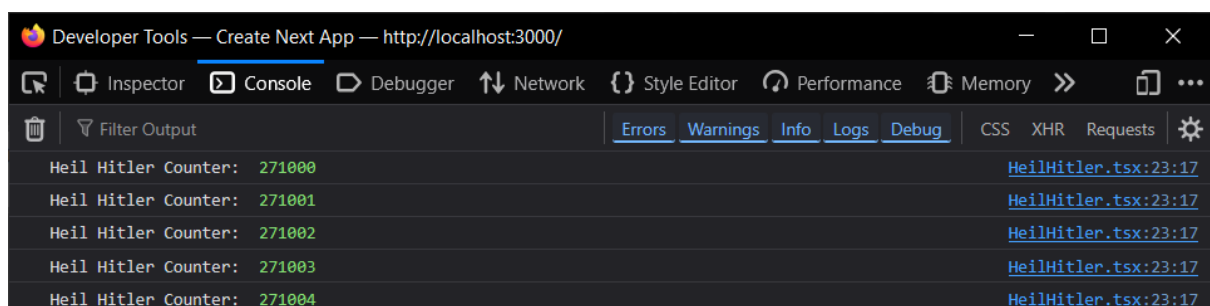
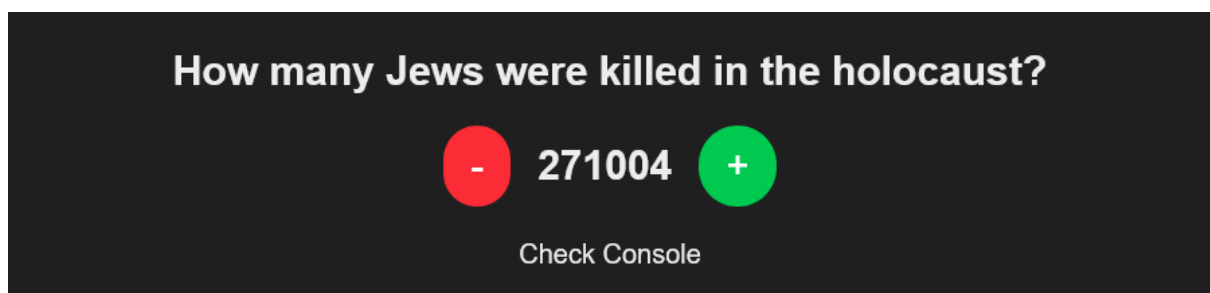
```
}
```

## CODE (Rendering):

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

export default function Home() {
  return (
    <>
      <HeilHitler/>
    </>
  );
}
```

## OUTPUT:



Console

Q) Create functional components to demonstrate useContext

## CODE (Animals):

"use client"

```
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)
    }
  }
```

```

    }
    return (
      <CounterContext.Provider value={{
count, increment, decrement }}>
        {children}
      </CounterContext.Provider>
    )
  }
  const useCounter = () =>
    useContext(CounterContext)

  export const Counter = () => {
    const { count, increment, decrement } =
    useCounter()
    return (
      <section className="h-screen flex
flex-col items-center justify-center gap-
4">
        <h2 className="text-2xl font-
bold">Gassed Jews Counter</h2>
        <div className="flex items-
center gap-4">

```

```

          <button onClick={decrement}
className="px-4 py-2 bg-red-500 text-white
rounded-full">
            -
          </button>
          <span className="text-2xl
font-bold">{count}</span>
          <button onClick={increment}
className="px-4 py-2 bg-green-500 text-
white rounded-full">
            +
          </button>
        </div>
      </section>
    )
  }
  export const HolocaustCounter = () => (
    <CounterProvider>
      <Counter />
    </CounterProvider>
  )

```

## CODE (Rendering):

```

import HolocaustCounter from "../components/HolocaustCounter";

export default function Home() {
  return (
    <>
      <HolocaustCounter/>
    </>
  );
}

```

## OUTPUT:

