Week 6

In this task, we created a simple React component using the useState hook to maintain a count of button clicks. Here's what was done:
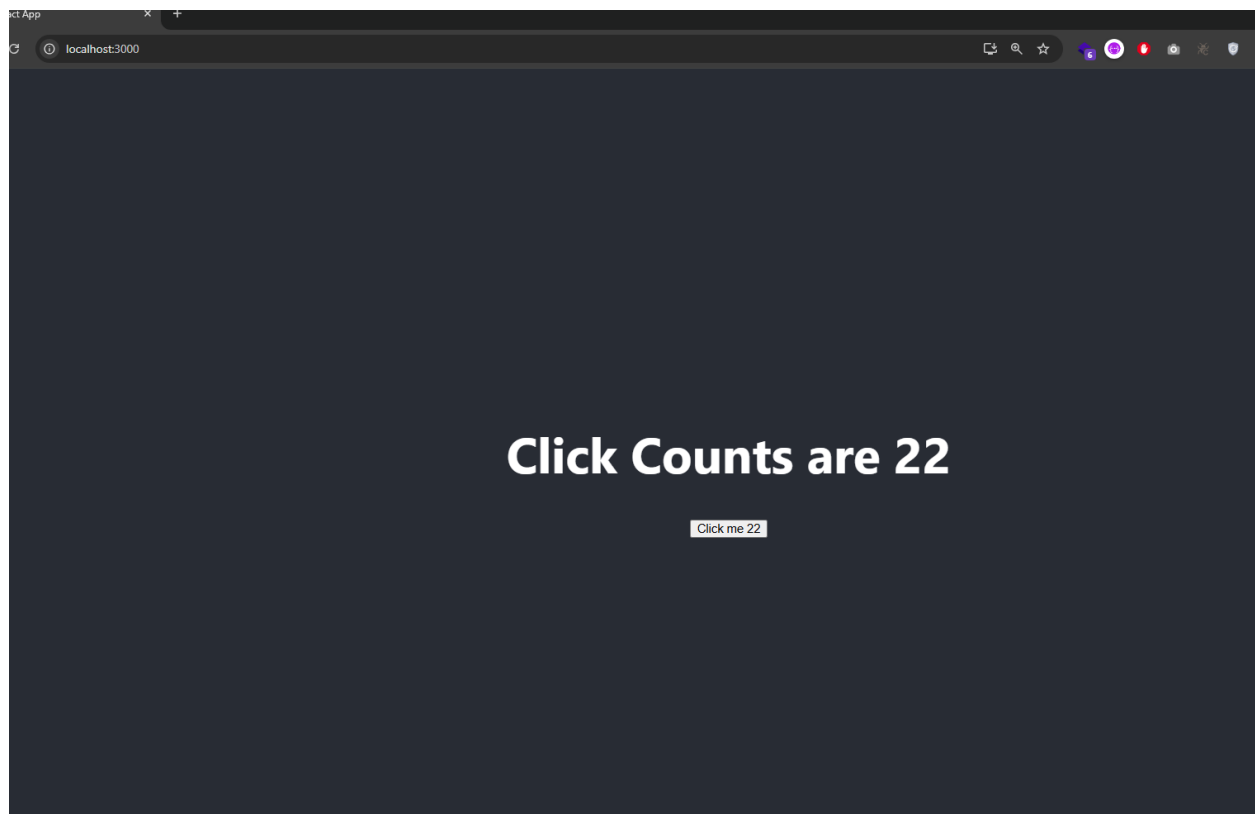
Step 1: Set up a new React project using create-react-app.

Step 2: Created a new component (Hook_ControlledButtonState) that displays a button and the current click count.

Step 3: Utilized the useState hook to initialize the count at 0 and update the count every time the button is clicked.

Step 4: Displayed the current count and a message indicating how many times the button was clicked.

Outcome: A button that, when clicked, increments a counter displayed on the screen.

```
1    import { useState } from "react";
2    function Hook_ControlledButtonState() {
3        const [count, setCount] = useState(0); // Initialize count state to 0
4
5        const ClickHandle = () => {
6            setCount(count + 1); // Increment count by 1 when button is clicked
7        };
8
9        return (
10           <div className="App-header">
11               <h1>Click Counts are {count}</h1>
12               <button type="button" onClick={ClickHandle}>
13                   Click me {count}
14               </button>
15           </div>
16       );
17   }
18
19   export default Hook_ControlledButtonState;
20
```

Task 2

This task involved creating a counter component that displays different emojis based on props and tracks the number of clicks. Here's what we did:

Step 1: Prepared images for three different emojis (Love, Sad, and Like).

Step 2: Created a new component (EmojiCounter) that accepts a pic prop to determine which emoji to display.

Step 3: Used the useState hook to track the count of clicks, and the useEffect hook to update the displayed emoji when the pic prop changes.

Step 4: Displayed a button with an emoji and a counter. Each time the button was clicked, the counter increased by 1.

Step 5: Imported and used this EmojiCounter component in index.js, passing different values for the pic prop to render each emoji button.

```js
import React, { useState, useEffect } from "react";
import Love from './Love.png';
import Sad from './sad.png';
import Like from './like.png';
function EmojiCounter(props) {
    console.log("pic is ", props.pic); // Log the pic prop for debugging

    const [pic, setPic] = useState(Love); // Default image
    const [count, setCount] = useState(0); // Default count

    useEffect(() => {
        // Change the image based on the prop passed
        if (props.pic === "Love") setPic(Love);
        else if (props.pic === "Like") setPic(Like);
        else if (props.pic === "Sad") setPic(Sad);
    }, [props.pic]);

    const ClickHandle = () => {
        setCount(count + 1); // Increment count when button is clicked
    };

    return (
        <div className="App">
            <p>{props.pic}</p>
            <button onClick={ClickHandle}>
                {count} <img src={pic} alt={props.pic} />
            </button>
        </div>
    );
}

export default EmojiCounter;
```

Click Counts are 0

Click me 0

Love

3

Sad

2

Like

2