Alphonz George
T11-03

Assignment - 8

AIM: Write a React program to implement React hooks
Program :

Counter.js –

// src/Counter.js

```javascript
import React, { useState, useEffect } from 'react';

const Counter = () => {
  // State to keep track of count
  const [count, setCount] = useState(0);

  // useEffect to log count changes
  useEffect(() => {
    console.log(`Count has been updated to: ${count}`);

    // Cleanup function (optional)
    return () => {
      console.log(`Cleaning up: count was ${count}`);
    };
  }, [count]); // Dependency array - runs effect only when 'count' changes

  return (
    <div style={{ textAlign: 'center', marginTop: '50px' }}>
      <h1>Counter: {count}</h1>
      <button onClick={() => setCount(count + 1)} style={{ marginRight: '10px' }}>
        Increment
```

```jsx
      </button>
      <button onClick={() => setCount(count - 1)} style={{ marginRight: '10px' }}>
        Decrement
      </button>
      <button onClick={() => setCount(0)}>
        Reset
      </button>
    </div>
  );
};

export default Counter;
```

App.js –

```jsx
// src/App.js

import React from 'react';
import './App.css';
import Counter from './Counter';

const App = () => {
  return (
    <div className="App">
      <h1 style={{ textAlign: 'center' }}>React Hooks Example</h1>
      <Counter />
    </div>
  );
};

export default App;
```

Output :