

DAY - 3,4,5

useState

</> JSX

```
1 import { useState } from "react"
2
3 export default function Status(){
4   // var clr='blue'
5   var [data,setData]=useState({
6     name:'Dev',
7     rollno:12,
8     cls:'AIDS A',
9     gender:'Male'
10  })
11  return (<>
12    <style>
13
14    </style>
15    <h2>Student name is {data.name} <br></br>
16      Roll number is {data.rollno}<br></br>
17      Class is {data.cls}<br></br>
18      Gender is {data.gender}<br></br></h2>
19    <button onClick={()=>{
20      setData({
21        name:'Darshan',
22        rollno:32,
23        cls:'AIDS B',
24        gender:'Male'
25      })
26    }}>Click here!! To change all</button>
27    <br></br>
28    <button onClick={()=>{
29      setData({...data,
30        name:'Devdarshan'
31      })
32    }}>Update Name!!</button>
33    <br></br>
34    <button onClick={()=>{
35      setData({...data,
36        rollno:'42'
37      })
38    }}>Update Roll number!!</button>
39    <br></br>
```

```

40     <button onClick={()=>{
41         setData({...data,
42             cls: 'AIDS C'
43         })
44     }}>Update Class!!</button>
45     <br></br>
46     <button onClick={()=>{
47         setData({...data,
48             gender: 'male'
49         })
50     }}>Update Gender!!</button>
51 </>)
52 }

```

</> JSX

```

1  import { useState } from "react"
2
3  export default function Status(){
4      // var clr='blue'
5      let [arr,setArr]=useState([1,2,3]);
6      return (<>
7          Initial Array is {arr.join(", ")}<br></br>
8          <button onClick={()=>{
9              setArr(arr.map((d) => d + 10));
10             }}>10 Added to Array </button>
11          </>)
12  }

```

map() will act as for loop

useEffect

</> JSX

```

1  import { useEffect, useState } from "react"
2
3  export default function Status(){
4      // var clr='blue'
5      let [com,setcom] = useState(0)
6      useEffect(()=>{
7          console.log("rendering....")
8      })
9      return (<>
10         <br>
11         </br>
12         count is {com}
13         <br></br>
14         <button onClick={()=>{

```

```

15         setcom(com+1)
16     }}>Increment</button><br>
17 </br>
18 <button onClick={()=>{
19     setcom(com+10)
20 }}>10 counter</button>
21 <br></br>
22 <button onClick={()=>{
23     setcom(com**com)
24 }}>power counter</button>
25 </>)
26 }

```

</> JSX

```

1 import { useEffect, useState } from "react"
2
3 export default function Status(){
4     // var clr='blue'
5     let [com,setcom] = useState(0)
6     useEffect(()=>{
7         console.log("rendering....");
8     })
9     return (<>
10     <h2>This is a counter and increment page</h2>
11     <br>
12     </br>
13     count is {com}
14     <br></br>
15     <button onClick={()=>{
16         setcom(prev => {
17             const newCount = prev + 1;
18             return newCount > 10 ? 0 : newCount; //
19             Reset to 0 if count reaches 10
20         }}>Increment</button><br>
21     </br>
22     </>)
23 }

```

useReducer

</> JSX

```

1 import { /*useEffect, useState,*/ useReducer } from
  "react"
2 export default function Status(){
3     const transaction=(balance,action)=>{
4         // eslint-disable-next-line default-case

```

```

5         switch(action.type){
6             case 'withdraw':
7                 return balance-action.amt
8             case 'deposit':
9                 return balance+action.amt
10        }
11    }
12    const withdraw=(amount)=>{
13        dispatch({type:'withdraw',amt:amount})
14    }
15    const deposit=(amount)=>{
16        dispatch({type:'deposit',amt:amount})
17    }
18    const
19    [balance,dispatch]=useReducer(transaction,1000)
20    return (<>
21        <br></br>
22        <h1>the balance val is {balance}</h1>
23        <button onClick={()=>
24            {withdraw(500)}}>Withdraw</button>
25        <button onClick={()=>
26            {deposit(1000)}}>Deposit</button>
27        </>)
28    }

```

Lists Operation

[</> JSX](#)

```

1  import { useState } from "react"
2  export default function C3( ){
3      const items = [1,232,4,34];
4      return (<>
5          <ul>
6              {
7                  items.map((item,i)=> (<li key={i}> <C4 n={item}
8                      /></li>))
9              }
10         </ul>
11     </>)
12 }

```

[</> JSX](#)

```

1  import logo from './logo.svg';
2  import './App.css';
3  import Home from './Home';
4  import Contact from './Contact';

```

```
5 import About from './About';
6 import { BrowserRouter, Link, Route, Routes } from
  'react-router-dom';
7 import User from './User';
8 import Newbook from './Newbook';
9 import Oldbook from './Oldbook';
10 function App() {
11   return (
12     <>
13       //this is nested route program
14       <h1>welcome to the cls</h1>
15       <BrowserRouter>
16         <ul>
17           <li><Link to="/">HOME</Link> </li>
18           <li><Link to="/aboutus">ABOUT</Link> </li>
19           <li><Link to="/contact-us">CONTACT</Link> </li>
20           <li><Link to="/user/10">USER 10</Link> </li>
21           <li><Link to="/user/13">USER 13</Link> </li>
22           <li><Link to="/user/134">USER 134</Link> </li>
23           <li><Link to="/books/new-book">NEW-BOOK</Link>
24           </li>
25           <li><Link to="/books/old-book">OLD-BOOK</Link>
26           </li>
27         </ul>
28         <Routes>
29           <Route path="/" element={<Home/>}></Route>
30           <Route path="/aboutus" element={<About/>}>
31           </Route>
32           <Route path="/contact-us" element=
33           {<Contact/>}></Route>
34           <Route path="/user/:id" element={<User/>}>
35           </Route>
36           <Route path="/books">
37           <Route path="new-book" element={<Newbook/>}>
38           </Route>
39           <Route path="old-book" element={<Oldbook/>}>
40           </Route>
41           </Route>
42         </Routes>
43       </BrowserRouter>
44     </>
45   )
46 }
47 export default App;
```