

(Q1) > src/Component/Student.js

```
function Student(props) {
  return (
    <div style={{border: "1px solid black", margin: "10px", padding: "10px"}}>
      <p>Name: {props.data.name} </p>
      <p>Roll No: {props.data.roll} </p>
      <p>Department: {props.data.dept} </p>
    </div>
  );
}
export default Student;
```

> src/Component/StudentList.js

```
import Student from "./Student";

function StudentList() {
  const students = [
    { name: "Satyajeet", roll: 101, dept: "CA" },
    { name: "Ankush", roll: 102, dept: "IT" },
    { name: "Rohit", roll: 103, dept: "CSE" },
    { name: "Sanket", roll: 104, dept: "ECE" },
  ];

  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px'}}>
      <h3>Q1: Student List</h3>
      <div style={{display: 'flex', flexWrap: 'wrap'}}>
        {students.map((stu, index) => (
          <Student key={index} data={stu} />
        ))}
      </div>
    </div>
  );
}

export default StudentList;
```

(Q2) > src/Component/Counter.js

```
import React, { useState } from 'react';
export default function Counter() {
  const [count, setCount] = useState(0);
  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px'}}>
      <h3>Q2: Counter</h3>
      <p>Count: {count}</p>
      <button onClick={() => setCount(count + 1)}>Increment</button>
      <button onClick={() => setCount((count > 0) ? count - 1 : 0)}>Decrement</button>
      <button onClick={() => setCount(0)}>Reset</button>
    </div>
  );
}
```

(Q3) > src/Component/Welcome.js

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

export default function Welcome() {
  const [show, setShow] = useState(false);

  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px'}}>
      <h3>Q3: Welcome Toggle</h3>
      <button onClick={() => setShow(!show)}>Toggle Message</button>
      {show && <h4 style={{color: 'blue'}}>Welcome to React!</h4>}
    </div>
  );
}
```

(Q4) > src/Component/Languages.js

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

export default function Languages() {
  const [langs, setLangs] = useState(["JavaScript", "Python", "Java"]);
  const [inputVal, setInputVal] = useState("");

  const addLang = () => {
    if(inputVal) {
      setLangs([...langs, inputVal]);
      setInputVal("");
    }
  };

  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px'}}>
      <h3>Q4: Languages</h3>
      <ul>
        {langs.map((lang, i) => <li key={i}>{lang}</li>)}
      </ul>
      <input
        type="text"
        value={inputVal}
        onChange={(e) => setInputVal(e.target.value)}
        placeholder="Add new language"
      />
      <button onClick={addLang}>Add</button>
    </div>
  );
}
```

(Q5) > src/Component/LightBulb.js

```
import React, { useState } from 'react';
export default function LightBulb() {
  const [isOn, setIsOn] = useState(false);
  const onImg = "https://www.w3schools.com/js/pic_bulbon.gif";
  const offImg = "https://www.w3schools.com/js/pic_bulboff.gif";
  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px', textAlign: 'center'}}>
      <h3>Q5: Double Click Bulb</h3>
      <div onClick={() => setIsOn(!isOn)}>
        <img
          src={isOn ? onImg : offImg}
          alt="bulb"
          style={{width: "100px", cursor: "pointer"}}
        />
      </div>
      <p>{isOn ? "On Me" : "Off Me"}</p>
      <small>(Double-click the bulb to toggle)</small>
    </div>
  );
}
```

(Q6) > src/Component/Registration.js

```
import React, { useState } from 'react';
export default function Registration() {
  const [formData, setFormData] = useState({ name: "", email: "", password: "" });
  const [submitted, setSubmitted] = useState(null);
  const handleSubmit = (e) => {
    e.preventDefault();
    if (formData.name && formData.email && formData.password) {
      setSubmitted(formData);
    } else {
      alert("All fields are required!");
    }
  };
  return (
    <div style={{border: '1px solid grey', padding: '10px', marginTop: '20px'}}>
      <h3>Q6: Registration Form</h3>
      <form onSubmit={handleSubmit}>
        <input type="text" placeholder="Name" onChange={(e) => setFormData({...formData, name: e.target.value}}) /><br/>
        <input type="email" placeholder="Email" onChange={(e) => setFormData({...formData, email: e.target.value}}) /><br/>
        <input type="password" placeholder="Password" onChange={(e) => setFormData({...formData, password: e.target.value}}) /><br/>
        <button type="submit">Register</button>
      </form>
      {submitted && (
        <div style={{marginTop: '10px', color: 'green'}}>
          <p>Name: {submitted.name}</p>
          <p>Email: {submitted.email}</p>
        </div>
      )}
    </div>
  );
}
```

src/App.js

```
import './App.css';

import StudentList from './Component/StudentList';
import Counter from './Component/Counter';
import Welcome from './Component/Welcome';
import Languages from './Component/Languages';
import LightBulb from './Component/LightBulb';
import Registration from './Component/Registration';

function App() {
  return (
    <div className="App" style={{ padding: '20px' }}>
      <h1>React Assignment 9</h1>
      <StudentList />
      <Counter />
      <Welcome />
      <Languages />
      <LightBulb />
      <Registration />
    </div>
  );
}

export default App;
```