**useState**

**Example: 1**

**Write a program to build React app having a button which increase count by 1 while clicking it.**

**Example: 2**

**Create a program to build React app having buttons to increment and decrement the number by clicking that respective button. Also, increment of the number should be performed only if number is less than 10 and decrement of the number should be performed if number is greater than 0.**

**Example: 3**

**Write a program to build React app to perform the tasks as asked below.**

* **Add three buttons “Change Text”, “Change Color”, “Hide/Show”.**
* **Add heading “LJ University” in red color(initial) and also add “React Js Hooks” text in h2 tag.**
* **By clicking on “Change text” button text should be changed to “Welcome students” and vice versa.**
* **By clicking on “Change Color” button change color of text to “blue” and vice versa. This color change should be performed while double clicking on the button.**
* **Initially button text should be “Hide”. While clicking on it the button text should be changed to “Show” and text “React Js Hooks” will not be shown.**

**Example: 4**

**Write a program to build React app having a button which changes image by clicking it.**

**Example: 5**

**Write a program to build React app having 2 input fields and display the entered value on the same page.**

**Example: 6**

**Write a program to build React app for task todo list.**

* **Add 1 input field and button and by clicking on button display entered task on the same page.**
* **Also, add delete button with each added task to delete the task.**

**useReducer**

**Example:1**

**Create react js app to increase value by 5 while clicking on button. Initialize value with 20. Use useReducer hook to perform the task.**

**Example:2**

**Create react js app to increase value by 1 while clicking on button “Increment” and decrease value by 1 while clicking on button “Decrement”. Initialize value with 0. Use useReducer hook to perform the task.**

**Usereducer.js**

**useContext**

**Example:1**

**Write a reactJS program to perform the tasks as asked below.**

* **Create one main file (parent file) name PC.js and other 2 component files C1.js and C2.js**
* **Pass First name and Last name from PC.js file to C2.js file. And display Welcome ABC XYZ (suppose firstname is ABC and Last name is XYZ) in browser.**

**Example:2**

**Write a reactJS program to perform the tasks as asked below.**

* **Create one main file (parent file) name Comp.js and other 3 component files Comp1.js, Comp2.js, Comp3.js.**
* **Pass Number1 and Number 2 from Comp.js file to Comp3.js file. Calculate multiplication of the numbers using useContext.**

**useEffect**

**Example:1**

**Write react js app to perform the tasks as asked below.**

* **Add two buttons and increment count by one with each click.**
* **Display alert as an effect on specified conditions.** 
  + **Effect will be triggered only when page rendered for the 1st time. (empty array)**
  + **Effect will be triggered every time the button A is clicked. (array with value)**

**Example:2**

**Write a ReactJS script to create a digital clock running continuously. (useEffect)**

**UE2.js**

**React Forms**

**1.**

**Create react app which contains form with following fields.**

* **First Name(Input type text)**
* **Lastname(Input type text)**
* **Email(Input type email)**
* **Password(Input type password)**
* **Confirm Password(Input type password)**
* **Message (Textarea)**
* **Gender(Radio Button)**
* **City (Dropdown)**

**Display submitted values in alert box. (Using useState Hook)**

**2.**

**Create react app which contains form with following fields.**

* **Email(Input type email)**
* **Password(Input type password)**
* **Confirm Password(Input type password)**

**Add validation using regex to validate email id and password (Must contain at least 8 characters and must contain at least 1 uppercase, 1 lowercase and 1 digit).**

**Also values of password and confirm password must be same.**

**Display email in alert box. (Using useState Hook)**

**Axios**

**Program: Create a react app to display images by requesting API using Axios.**