**16. ReactJs – HOL**

**1.Explain React Forms validation**

* Validation ensures user inputs meet specific criteria before submission.
* Can be done manually in event handlers or using libraries like Formik or Yup.
* Common validations include required fields, email formats, and value ranges.

**2.Identify the differences between React Form and HTML Form**

* HTML forms rely on the browser for handling input and submission.
* React forms use component state and events to manage input and control submission.
* React offers more flexibility and control over data, validation, and UI behavior.

**3.Explain about controlled components**

* A controlled component’s form data is handled by React via state.
* The value of the input is set from state and updated through onChange.
* Allows full control of the form data, making it easier to validate and manipulate.

**4.Identify various React Form input contr**

* <input type="text">, <textarea>, and <select> are commonly used.

Other inputs include checkboxes, radio buttons, and date pickers.

All can be used as controlled components by linking to state.

**5.Explain how to handle React Forms**

* Use onChange events to update state when user types/selects input.
* Bind each input field’s value to a state variable.
* Organize logic for validation, error messages, and dynamic changes.

**6.Explain about submitting forms in React**

* Use the onSubmit event on the <form> element.
* Prevent default browser action using event.preventDefault().
* Access input values from state and handle data logic or API calls in the handler.

**React Application – mailregisterapp**

Create a React App named “mailregisterapp” which will have a component named “register.js”. Create a form which accepts the name, email and password and validate the fields as per the following:

1. Name should have atleast 5 characters
2. Email should have @ and .
3. Password should have atleast 8 characters.

Ensure that validations are implemented through eventhandle and eventsubmit of a form.

**Output:**





