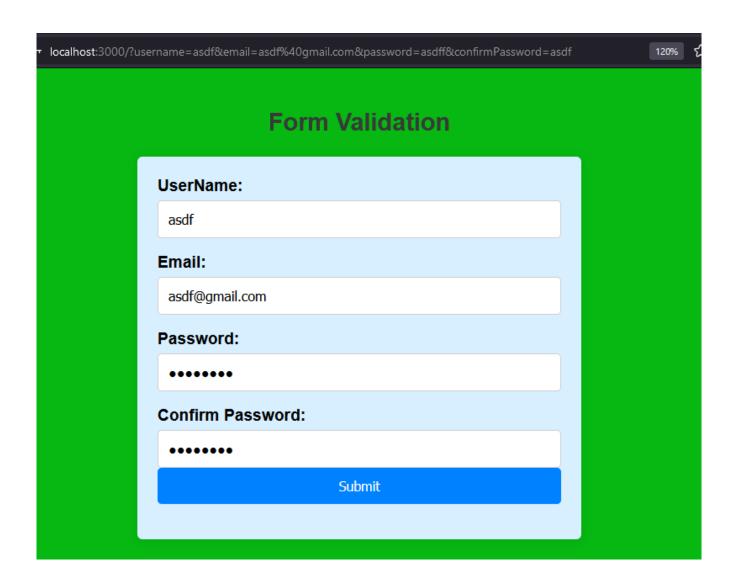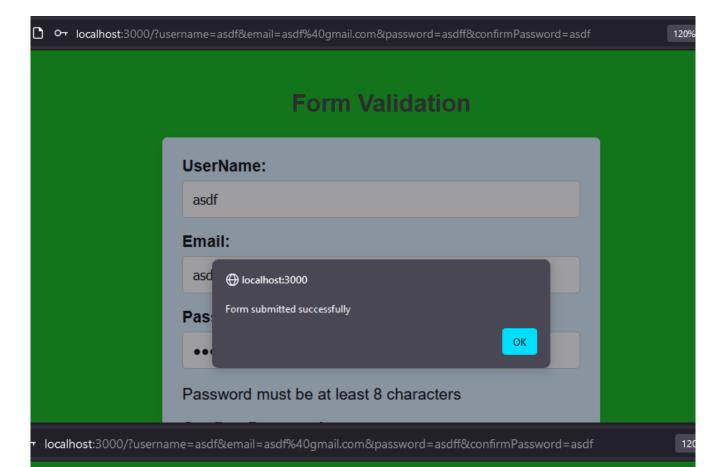| Program No:	3
Roll No :	1525
Title of Program :	**Handling form in react**
Objective :	Form handling

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

function Form1() {
  const [formData, setFormData] = useState({
    username: '',
    email: '',
    password: '',
    confirmPassword: ''
  });

  const [errors, setErrors] = useState({});

  const handleChange = (e) => {
    const { name, value } = e.target;
    setFormData({
      ...formData,
      [name]: value,
    });
  };

  const validateForm = (data) => {
    const errors = {};
    if (!data.username.trim()) {
      errors.username = "Username is required";
    } else if (data.username.length < 4) {
      errors.username = "Username must be at least 4 characters long";
    }

    if (!data.email.trim()) {
      errors.email = 'Email is required';
    } else if (!/\S+@\S+\.\S+/.test(data.email)) {
      errors.email = 'Email must be a valid email address';
    }
```

```
    if (!data.password) {
      errors.password = "Password is required";
    } else if (data.password.length < 8) {
      errors.password = 'Password must be at least 8 characters';
    }

    if (data.password !== data.confirmPassword) {
      errors.confirmPassword = "Passwords do not match";
    }

    return errors;
  };

  const handleSubmit = (e) => {
    e.preventDefault();
    const newErrors = validateForm(formData);
    setErrors(newErrors);
    if (Object.keys(newErrors).length === 0) {
      alert("Form submitted successfully");
      // You can also handle form submission here (e.g., send data to an API)
    } else {
      alert("Submission failed due to errors");
    }
  };

  return (
    <div>
      <h2>Form Validation</h2>
      <form onSubmit={handleSubmit}>
        <div>
          <label>UserName:</label>
          <input
            type='text'
            name='username'
            value={formData.username}
            onChange={handleChange}
          />
          {errors.username && <p style={{ color: 'red' }}>{errors.username}</p>}
        </div>
        <div>
          <label>Email:</label>
          <input
            type='email'
            name='email'
            value={formData.email}
            onChange={handleChange}
          />
```

```jsx
        {errors.email && <p style={{ color: 'red' }}>{errors.email}</p>}
      </div>
      <div>
        <label>Password:</label>
        <input
          type='password'
          name='password'
          value={formData.password}
          onChange={handleChange}
        />
        {errors.password && <p >{errors.password}</p>}
      </div>
      <div>
        <label>Confirm Password:</label>
        <input
          type='password'
          name='confirmPassword'
          value={formData.confirmPassword}
          onChange={handleChange}
        />
        {errors.confirmPassword && <p style={{ color:
'red' }}>{errors.confirmPassword}</p>}
        <br />
        <button className='submit-button' type='submit'>Submit</button>
      </div>
    </form>
  </div>
  );
}

export default Form1;
```

```jsx
import logo from './logo.svg';
import './App.css';
import Form  from './components/Form';
import Form1  from './components/Form1';
import './App.css';

function App() {
 return (
  <div className="App">
   {/* <Greet>  </Greet> */}
   {/* <Form></Form> */}
   <Form1/>
```

```
    </div>
  );
}

export default App;
```

OUTPUT:

Form Validation

UserName:

asdf

Email:

asd

Pass

●●●

⊕ localhost:3000

Form submitted successfully

OK

Password must be at least 8 characters

Form Validation

UserName:

asdf

Email:

asd

Pass

●●●

⊕ localhost:3000

Submission failed due to errors

OK

Confirm Password:

●●●●

Submit