Experiment-4

AIM:

     i.   Write a JavaScript to validate the fields of the login page.

     ii.   Write a JavaScript to validate the fields of the Registration page

Login.html

```html
<!DOCTYPE html>

<html lang="en">

<head>

   <meta charset="UTF-8">

   <meta name="viewport" content="width=device-width, initial-scale=1.0">

   <title>Login Form</title>

   <style>

      body {

         font-family: Arial, sans-serif;

         display: flex;

         justify-content: center;

         align-items: center;

         height: 100vh;

         margin: 0;

         background-color: #f4f4f4;

      }
      .container {

         max-width: 400px;

         background: #fff;

         padding: 20px;

         border-radius: 8px;

         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

      }
```

```html
        .form-group {

            margin-bottom: 15px;

        }

        .form-group input,

        .form-group button {

            width: 100%;

            padding: 10px;

            border: 1px solid #ddd;

            border-radius: 4px;

            box-sizing: border-box;

        }

        .form-group button:hover {

            background-color: #0056b3;

        }

        .error {

            color: red;

            font-size: 14px;

        }

    </style>

</head>

<body>

    <div class="container">

        <h2>Login Form</h2>

        <form id="loginForm">

            <div class="form-group">

                <input type="text" id="username" name="username" placeholder="Username" required>

                <div class="error" id="usernameError"></div>

            </div>

            <div class="form-group">

                <input type="password" id="password" name="password" placeholder="Password" required>
```
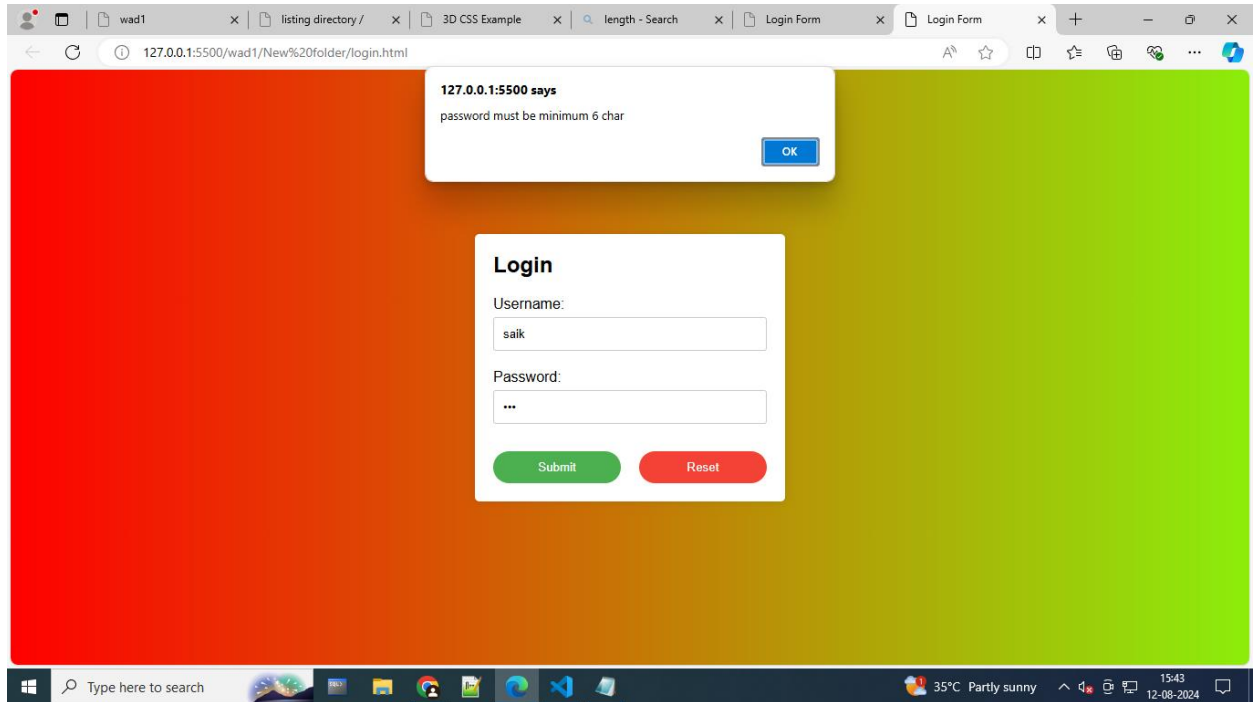
```html
            <div class="error" id="passwordError"></div>

        </div>

        <div class="form-group">

            <button type="submit">Login</button>

        </div>

    </form>

</div>

<script>

    document.getElementById('loginForm').addEventListener('submit', function(event) {

        event.preventDefault();

        let valid = true;

        const fields = ['username', 'password'];

        fields.forEach(field => {

            const input = document.getElementById(field);

            const errorDiv = document.getElementById(field + 'Error');

            errorDiv.textContent = '';

            if (!input.value.trim()) {

                errorDiv.textContent = field.charAt(0).toUpperCase() + field.slice(1) + ' is required.';

                valid = false;

            }

        });

        if (valid) alert('Login successful!');

    });

</script>


</body>

</html>
```

Output:

Registration.html

<!DOCTYPE html>

<html lang="en">

```html
<head>
    <title>Registration Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
            background-color: #f4f4f4;
        }
        .container {
            max-width: 400px;
            width: 100%;
            background: #fff;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        .form-group {
            margin-bottom: 15px;
        }
        .form-group label {
            display: block;
            margin-bottom: 5px;
        }
        .form-group input,
        .form-group button {
            width: 100%;
```

```
        padding: 10px;

        border: 1px solid #ddd;

        border-radius: 4px;

        box-sizing: border-box;

      }
      .error {

        color: red;

        font-size: 14px;

      }

    </style>

</head>

<body>

    <div class="container">

        <h2>Registration Form</h2>

        <form id="registrationForm">

            <div class="form-group">

                <label for="username">Username:</label>

                <input type="text" id="username" name="username" required>

                <div class="error" id="usernameError"></div>

            </div>

            <div class="form-group">

                <label for="email">Email:</label>

                <input type="email" id="email" name="email" required>

                <div class="error" id="emailError"></div>

            </div>

            <div class="form-group">

                <label for="password">Password:</label>

                <input type="password" id="password" name="password" required>

                <div class="error" id="passwordError"></div>

            </div>
```

```html
        <div class="form-group">

            <button type="submit">Register</button>

        </div>

    </form>

</div>

<script>

    const form = document.getElementById('registrationForm');

    form.addEventListener('submit', function(event) {

        event.preventDefault()

        const errors = {

            username: 'Username is required.',

            email: {

                empty: 'Email is required.',

                invalid: 'Email is invalid.'

            },

            password: {

                empty: 'Password is required.',

                short: 'Password must be at least 6 characters long.'

            }

        };

        const username = form.username.value.trim();

        const email = form.email.value.trim();

        const password = form.password.value.trim();

        let valid = true;

        form.querySelectorAll('.error').forEach(error => error.textContent = '');

        if (!username) {

            document.getElementById('usernameError').textContent = errors.username;

            valid = false;

        }

        if (!email) {
```

```
            document.getElementById('emailError').textContent = errors.email.empty;

            valid = false;

        } else if (!/\S+@\S+\.\S+/.test(email)) {

            document.getElementById('emailError').textContent = errors.email.invalid;

            valid = false;

        }

        if (!password) {

            document.getElementById('passwordError').textContent = errors.password.empty;

            valid = false;

        } else if (password.length < 6) {

            document.getElementById('passwordError').textContent = errors.password.short;

            valid = false;

        }

        if (valid) alert('Registration successful!');

    });

  </script>

</body>

</html>
```

Output:

Registration Form

Username:

Email:

Password:

Register