LAB EXPERIMENT 02

Write JavaScript to validate the following fields of the Registration page.

a) First Name (Name should contains alphabets and the length

Should not be less than 6 characters).

- b) Password (Password should not be less than 6 characters length).
- c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)

- d) Mobile Number (Phone number should contain 10 digits only).
- e) Last Name and Address (should not be Empty).

Aim:

To create a JavaScript function that validates the following fields on a registration page:

- 1. **First Name** Should contain only alphabets and should be at least 6 characters long.
- 2. Password Should be at least 6 characters long.
- 3. **E-mail ID** Should follow a standard pattern (name@domain.com).
- 4. Mobile Number Should contain exactly 10 digits.
- 5. Last Name and Address Should not be empty.

Algorithm:

- 1. **Create an HTML form**: Structure the form to include fields for First Name, Last Name, Password, E-mail, Mobile Number, and Address.
- 2. Add a Submit Button: This will trigger the validation function when clicked.
- 3. Write the JavaScript function:
 - Validate the First Name using a regular expression that allows only alphabets and checks the length.
 - Validate the **Password** to ensure it's at least 6 characters long.

- Validate the E-mail using a regular expression to match the standard pattern (name@domain.com).
- Validate the Mobile Number to ensure it's a 10digit number.
- Validate the Last Name and Address to ensure they are not empty.
- 4. **Display error messages**: If any field is invalid, show an appropriate error message and prevent the form from submitting.

```
</head>
<body>
  <h2>Registration Form</h2>
  <form id="registrationForm" onsubmit="return</pre>
validateForm()">
    <label for="firstName">First Name:</label>
    <input type="text" id="firstName"</pre>
name="firstName">
    <span id="firstNameError"</pre>
style="color:red;"></span><br><br>
    <label for="lastName">Last Name:</label>
    <input type="text" id="lastName"
name="lastName">
    <span id="lastNameError"</pre>
style="color:red;"></span><br><br>
    <label for="email">Email:</label>
```

```
<input type="email" id="email" name="email">
    <span id="emailError"</pre>
style="color:red;"></span><br><br>
    <label for="password">Password:</label>
    <input type="password" id="password"</pre>
name="password">
    <span id="passwordError"</pre>
style="color:red;"></span><br><br>
    <label for="mobile">Mobile Number:
    <input type="text" id="mobile" name="mobile">
    <span id="mobileError"</pre>
style="color:red;"></span><br><br>
    <label for="address">Address:</label>
    <textarea id="address"
name="address"></textarea>
```

```
<span id="addressError"</pre>
style="color:red;"></span><br><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
JavaScript Code (script.js):
function validateForm() {
  let isValid = true;
  // Validate First Name
  const firstName =
document.getElementById('firstName').value;
  const firstNameError =
document.getElementById('firstNameError');
```

```
if (firstName.length < 6 | | !/^[A-Za-
z]+$/.test(firstName)) {
    firstNameError.textContent = "First Name should
contain only alphabets and be at least 6 characters
long.";
    isValid = false;
  } else {
    firstNameError.textContent = "";
  }
  // Validate Last Name
  const lastName =
document.getElementById('lastName').value;
  const lastNameError =
document.getElementById('lastNameError');
  if (lastName.trim() === "") {
    lastNameError.textContent = "Last Name should not
be empty.";
```

```
isValid = false;
  } else {
    lastNameError.textContent = "";
  // Validate Email
  const email =
document.getElementById('email').value;
  const emailError =
document.getElementById('emailError');
  const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9._%+-]
9.-]+\.[a-zA-Z]\{2,\}$/;
  if (!emailPattern.test(email)) {
    emailError.textContent = "Please enter a valid email
address.";
    isValid = false;
  } else {
```

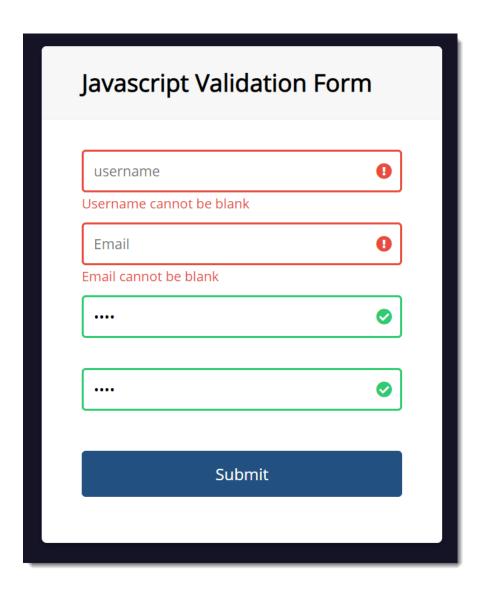
```
emailError.textContent = "";
  // Validate Password
  const password =
document.getElementById('password').value;
  const passwordError =
document.getElementById('passwordError');
  if (password.length < 6) {</pre>
    passwordError.textContent = "Password should be
at least 6 characters long.";
    isValid = false;
  } else {
    passwordError.textContent = "";
  }
  // Validate Mobile Number
```

```
const mobile =
document.getElementById('mobile').value;
  const mobileError =
document.getElementById('mobileError');
  const mobilePattern = /^[0-9]{10}$/;
  if (!mobilePattern.test(mobile)) {
    mobileError.textContent = "Mobile Number should
contain exactly 10 digits.";
    isValid = false;
  } else {
    mobileError.textContent = "";
  }
  // Validate Address
  const address =
document.getElementById('address').value;
  const addressError =
document.getElementById('addressError');
```

```
if (address.trim() === "") {
    addressError.textContent = "Address should not be
empty.";
    isValid = false;
} else {
    addressError.textContent = "";
}

return isValid;
}
```

OUTPUT:



RESULT:

The registration page ensures that only valid data is submitted by the user, preventing incorrect or incomplete information.