

# Experiment-1

## 1) Aim

- Student Registration Form with HTML5 Validation.

## 2) Objective

- Design and implement a basic student registration form that collects user information and validates inputs using HTML5 features.

## 3) Procedure / Algorithm

- **Open a code editor** (e.g., VS Code, Sublime Text, Notepad++) on your system.
- **Create an HTML file** (e.g., `registration.html`).
- Inside the HTML file, write the basic HTML structure using `<!DOCTYPE html>`, `<html>`, `<head>`, and `<body>` tags.
- In the `<body>`, create a `<form>` element and add the following fields:
  - `<input type="text" name="name" required>` for Name
  - `<input type="email" name="email" required>` for Email
  - `<input type="number" name="age" min="1" required>` for Age
- Add HTML5 validation attributes:
  - Use the `required` attribute to make fields mandatory.
  - Use `type="email"` for email format validation.
  - Use `type="number"` with a `min` value for age validation.
- Add a **submit button** inside the form:  
`<input type="submit" value="Register">`
- Save the file and open it in a web browser to test.
- Try submitting the form with empty fields or incorrect input to see the HTML5 validation in action.

## 5)Program code->

```
<!DOCTYPE html>\n\n<html lang="en">\n\n<head>\n\n  <meta charset="UTF-8">\n\n  <title>Student Registration Form</title>\n\n  <style>\n\n    body {\n\n      font-family: Arial, sans-serif;\n\n      background: #f0f0f0;\n\n    }\n\n    .form-container {\n\n      max-width: 400px;\n\n      margin: 2rem auto;\n\n      padding: 2rem;\n\n      background: white;\n\n      border-radius: 8px;\n\n      box-shadow: 0 2px 10px rgba(0,0,0,0.1);\n\n    }\n\n    .form-container h2 {\n\n      text-align: center;\n\n      margin-bottom: 1.5rem;\n\n    }\n  }
```

```
label {  
  
  display: block;  
  
  margin-top: 1rem;  
  
}  
  
input[type="text"],  
  
input[type="email"],  
  
input[type="number"] {  
  
  width: 100%;  
  
  padding: 0.5rem;  
  
  margin-top: 0.3rem;  
  
  border: 1px solid #ccc;  
  
  border-radius: 5px;  
  
}  
  
button {  
  
  margin-top: 1.5rem;  
  
  width: 100%;  
  
  padding: 0.7rem;  
  
  background-color: #3498db;  
  
  color: white;  
  
  border: none;  
  
  border-radius: 5px;  
  
  cursor: pointer;  
  
}  
  
button:hover {  
  
  background-color: #2980b9;
```

```
}

</style>

</head>

<body>

<div class="form-container">

  <h2>Student Registration</h2>

  <form onsubmit="return validateForm()" novalidate>

    <label for="name">Full Name:</label>

    <input type="text" id="name" name="name" pattern="[A-Za-z\s]+" required title="Name should contain only letters and spaces">

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

    <input type="email" id="email" name="email" required title="Enter a valid email address">

    <label for="age">Age:</label>

    <input type="number" id="age" name="age" min="10" max="100" required title="Age must be between 10 and 100">

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

  </form>

</div>

<script>

function validateForm() {

  const form = document.querySelector('form');
```

```
if (!form.checkValidity()) {  
  
    form.reportValidity();  
  
    return false;  
  
}  
  
alert("Registration successful!");  
  
return true;  
  
}  
</script>
```

```
</body>
```

```
</html>
```

**6)Output->**

## Student Registration

Full Name:

Email Address:

Age:

Register