EXPERIMENT-1

AIM

To design and implement a basic student registration form using HTML5 that collects user information such as name, email, and age, with built-in validation for each field.

OBJECTIVE

- To understand and apply basic HTML5 form elements.
- To use HTML5 input attributes for form validation (e.g., required, type, min, pattern).
- To build a responsive, user-friendly registration form.

THEORY

HTML5 provides new input types and attributes that simplify form validation and improve user experience. For instance:

- type="email" ensures a proper email format.
- type="number" with min and max restricts age input.
- required ensures that the field cannot be left empty.

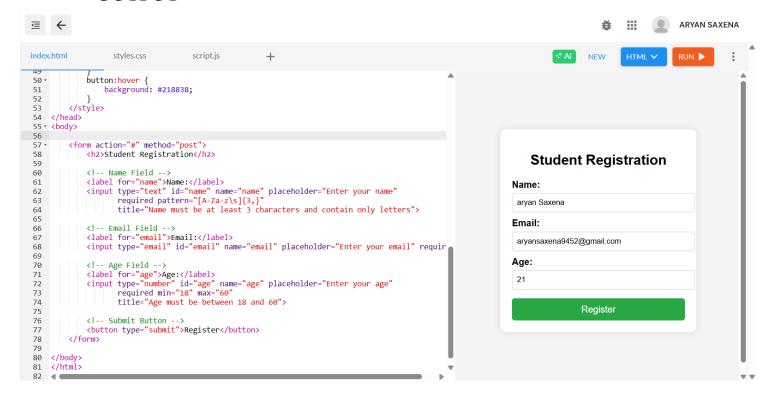
These validations are performed client-side, reducing unnecessary server requests and improving performance.

CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Student Registration Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background: #f4f4f4;
      padding: 20px;
    .container {
      background: #fff;
      max-width: 400px;
      margin: auto;
      padding: 30px;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0,0,0,0.1);
```

```
h2 {
      text-align: center;
      margin-bottom: 20px;
    label {
      display: block;
      margin: 15px 0 5px;
    input[type="text"],
    input[type="email"],
    input[type="number"] {
      width: 100%;
      padding: 8px;
      box-sizing: border-box;
    input[type="submit"] {
      margin-top: 20px;
      width: 100%;
      background-color: #28a745;
      color: white;
      padding: 10px;
      border: none;
      border-radius: 5px;
      font-size: 16px;
      cursor: pointer;
    input[type="submit"]:hover {
      background-color: #218838;
  </style>
<div class="container">
 <h2>Student Registration</h2>
  <form action="#" method="post">
    <label for="name">Full Name:</label>
    <input type="text" id="name" name="name" required pattern="[A-Za-z ]{2,}"</pre>
title="Please enter a valid name.">
    <label for="email">Email Address:</label>
    <input type="email" id="email" name="email" required>
    <label for="age">Age:</label>
    <input type="number" id="age" name="age" required min="16" max="100">
    <input type="submit" value="Register">
  </form>
</div>
 /body>
```

OUTPUT



LEARNING OUTCOMES

- Create HTML forms with proper structure and styling.
- Implement HTML5 form validation without using JavaScript.
- Understand form submission and input data constraints.
- Enhance user experience through clean, validated forms.