**2.c Build a dynamic form with client-side validation using jQuery**

**Aim:**  
To implement client-side validation for a form using jQuery to ensure inputs are correct before submission.

**Tools Required:**

* Web browser (Chrome/Firefox)
* Text editor (VS Code/Notepad++)
* jQuery library (CDN)

**Procedure:**

1. Create a folder named **jquery\_validation**.
2. Inside the folder, create two files:
   * index.html
   * validate.js
3. Add a registration form with fields (Name, Email, Phone, Password).
4. Include jQuery from CDN.
5. Write validation rules in validate.js.
6. Display error messages beside invalid fields.
7. Save and run in a browser. Test with correct/incorrect input.

**Source Code:**

index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>jQuery Validation</title>

</head>

<body>

<h1>Registration Form</h1>

<form id="regForm">

<div><label>Name: <input name="name"></label> <span class="err"></span></div>

<div><label>Email: <input name="email"></label> <span class="err"></span></div>

<div><label>Phone: <input name="phone"></label> <span class="err"></span></div>

<div><label>Password: <input type="password" name="password"></label> <span class="err"></span></div>

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

</form>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script src="validate.js"></script>

</body>

</html>

validate.js

$(function(){

$("#regForm").on("submit", function(e){

e.preventDefault();

let valid = true;

$(".err").text(""); // clear errors

const name = $("input[name='name']").val().trim();

const email = $("input[name='email']").val().trim();

const phone = $("input[name='phone']").val().trim();

const password = $("input[name='password']").val();

if(name === "") { $("input[name='name']").next().text("Name required"); valid=false; }

if(!/^[^@\s]+@[^@\s]+\.[^@\s]+$/.test(email)) { $("input[name='email']").next().text("Invalid email"); valid=false; }

if(!/^\d{10}$/.test(phone)) { $("input[name='phone']").next().text("Phone must be 10 digits"); valid=false; }

if(password.length < 6) { $("input[name='password']").next().text("Password must be ≥ 6 chars"); valid=false; }

if(valid) alert("Form submitted successfully!");

});

});

**Expected Output:**

* Errors appear next to invalid fields.
* With correct input, an alert confirms form submission.

**Result:**  
The dynamic form with jQuery validation was successfully implemented. Client-side validation ensured correct input format before submission.