//i)Write the code to process online Alumni information for your college.Create a form to get a nane,date of birth and email id. Use check boxes for taking hobbies and radio buttons for selecting branch.Write JavaScript code to validate the following. -User has to fill all the fields prior to the form submission -Valid email id (@ and .) -Age validation using DOB(>=22 years) -Password length should not less than 6.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Alumni Information Form</title>

<style>

body {

display: flex;

justify-content: center; align-items: center; height: 100vh;

flex-direction: column;

font-family: Arial, sans-serif;

}

form {

display: flex;

flex-direction: column; width: 300px;

}

input, select { margin: 10px 0; padding: 10px; font-size: 16px;

}

button {

padding: 10px; font-size: 16px; cursor: pointer;

}

</style>

</head>

<body>

<h1>Alumni Information Form</h1><form id="alumniForm">

<input type="text" id="name" placeholder="Name" required>

<input type="date" id="dob" required>

<input type="email" id="email" placeholder="Email" required>

<div>

<strong>Select Branch:</strong>

<label><input type="radio" name="branch" value="CSE" required> CSE</label>

<label><input type="radio" name="branch" value="ECE" required> ECE</label>

<label><input type="radio" name="branch" value="ME" required> ME</label>

</div>

<div>

<strong>Select Hobbies:</strong><br>

<label><input type="checkbox" name="hobbies" value="Reading"> Reading</label>

<label><input type="checkbox" name="hobbies" value="Traveling"> Traveling</label>

<label><input type="checkbox" name="hobbies" value="Sports"> Sports</label>

</div>

<input type="password" id="password" placeholder="Password" required>

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

</form>

<script>

document.getElementById('alumniForm').addEventListener('submit', function(event) { event.preventDefault(); // Prevent form submission for validation

const name = document.getElementById('name').value; const dob = document.getElementById('dob').value; const email = document.getElementById('email').value;

const password = document.getElementById('password').value;

// Validate all fields

if (!name || !dob || !email || !password) { alert("Please fill all fields.");

return;

}

// Validate email format

const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/; if (!emailPattern.test(email)) {

alert("Please enter a valid email address."); return;

}

// Validate age (22 years or older) const birthDate = new Date(dob); const today = new Date();

const age = today.getFullYear() - birthDate.getFullYear();

const monthDifference = today.getMonth() - birthDate.getMonth(); if (age < 22 || (age === 22 && monthDifference < 0)) {

alert("You must be at least 22 years old."); return;

}// Validate password length if (password.length < 6) {

alert("Password must be at least 6 characters long."); return;

}

// If all validations pass, you can process the form data alert("Form submitted successfully!");

// Here you can add code to send the form data to the server

});

</script>

</body>

</html>