Practical 14

Task: Registration Form with Validation

- Objective: Implement form validation using JavaScript.
- Activities:
- Create a registration form with fields for Name, Email, Password, and Confirm Password.
- Use JavaScript to validate the form fields (e.g., check if email is valid, password strength, and matching passwords).
- Display error messages for invalid inputs.

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <link
  href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstr
  ap.min.css" rel="stylesheet">
  <style>
    .error {
      color: red;
      font-size: 0.9em;
    }
  </style>
</head>
<body class="bg-light">
  <div class="container mt-5">
    <h2 class="text-center mb-4">Registration Form</h2>
    <form id="registrationForm" class="needs-validation" novalidate>
      <div class="row mb-3">
        <div class="col-md-6">
          <label for="name" class="form-label">Name</label>
          <input type="text" class="form-control" id="name" required>
          <div class="error" id="nameError"></div>
        </div>
        <div class="col-md-6">
          <label for="email" class="form-label">Email</label>
          <input type="email" class="form-control" id="email" required>
          <div class="error" id="emailError"></div>
        </div>
      </div>
      <div class="row mb-3">
        <div class="col-md-6">
          <label for="password" class="form-label">Password</label>
          <input type="password" class="form-control" id="password"
required>
```
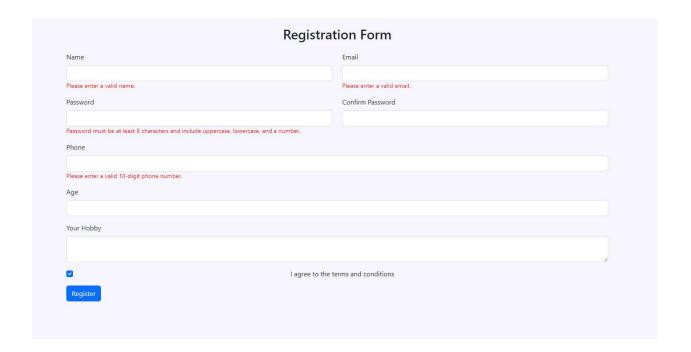
```
            <div class="error" id="passwordError"></div>
        </div>
        <div class="col-md-6">
            <label for="confirmPassword" class="form-label">Confirm
Password</label>
            <input type="password" class="form-control" id="confirmPassword"
required>
            <div class="error" id="confirmPasswordError"></div>
        </div>
    </div>
    <div class="mb-3">
        <label for="phone" class="form-label">Phone</label>
        <input type="tel" class="form-control" id="phone" required>
        <div class="error" id="phoneError"></div>
    </div>
    <div class="mb-3">
        <label for="age" class="form-label">Age</label>
        <input type="number" class="form-control" id="age" min="18"
max="100" required>
        <div class="error" id="ageError"></div>
    </div>
    <div class="hobby mb-3">
        <label for="Your Passion" class="form-label">Your Hobby</label>
        <textarea class="form-control" id="Your Passion" rows="2"
required></textarea>
    </div>
    <div class="form-check mb-3 text-center">
        <input type="checkbox" class="form-check-input d-inline"
id="terms" required>
        <label for="terms" class="form-check-label d-inline">I agree to
the terms and conditions</label>
        <div class="error" id="termsError"></div>
    </div>
    <button type="submit" class="btn btn-primary">Register</button>
    </form>
  </div>
  <script src="pr15.js"></script>
</body>
</html>
```

```
document.getElementById('registrationForm').addEventListener('submit',
function(event) {
  event.preventDefault();

  let valid = true;
```

```javascript
  const name = document.getElementById('name').value;
  if (name === '' || !/^[a-zA-Z ]+$/.test(name)) {
    document.getElementById('nameError').textContent = 'Please enter a valid
name.';
    valid = false;
  } else {
    document.getElementById('nameError').textContent = '';
  }


  const email = document.getElementById('email').value;
  if (email === '' || !/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email)) {
    document.getElementById('emailError').textContent = 'Please enter a valid
email.';
    valid = false;
  } else {
    document.getElementById('emailError').textContent = '';
  }

  const password = document.getElementById('password').value;
  const confirmPassword = document.getElementById('confirmPassword').value;
  const passwordError = document.getElementById('passwordError');
  const confirmPasswordError = document.getElementById('confirmPasswordError');
  if (password.length < 8 || !/[A-Z]/.test(password) || !/[a-z]/.test(password)
|| !/[0-9]/.test(password)) {
    passwordError.textContent = 'Password must be at least 8 characters and
include uppercase, lowercase, and a number.';
    valid = false;
  } else {
    passwordError.textContent = '';
  }

  if (password !== confirmPassword) {
    confirmPasswordError.textContent = 'Passwords do not match.';
    valid = false;
  } else {
    confirmPasswordError.textContent = '';
  }


  const phone = document.getElementById('phone').value;
  if (phone === '' || !/^\d{10}$/.test(phone)) {
    document.getElementById('phoneError').textContent = 'Please enter a valid
10-digit phone number.';
    valid = false;
  } else {
    document.getElementById('phoneError').textContent = '';
  }
```

```javascript
  const dob = document.getElementById('dob').value;
  if (dob === '') {
    document.getElementById('dobError').textContent = 'Please enter your date of
birth.';
    valid = false;
  } else {
    document.getElementById('dobError').textContent = '';
  }


  const age = document.getElementById('age').value;
  if (age < 18 || age > 100) {
    document.getElementById('ageError').textContent = 'Please enter a valid age
between 18 and 100.';
    valid = false;
  } else {
    document.getElementById('ageError').textContent = '';
  }


  const genderMale = document.getElementById('male').checked;
  const genderFemale = document.getElementById('female').checked;
  if (!genderMale && !genderFemale) {
    document.getElementById('genderError').textContent = 'Please select your
gender.';
    valid = false;
  } else {
    document.getElementById('genderError').textContent = '';
  }


  const website = document.getElementById('website').value;
  if (website === '' || !/^https?:\/\/[^\s$.?#].[^\s]*$/.test(website)) {
    document.getElementById('websiteError').textContent = 'Please enter a valid
website URL.';
    valid = false;
  } else {
    document.getElementById('websiteError').textContent = '';
  }

  const country = document.getElementById('country').value;
  if (country === '') {
    document.getElementById('countryError').textContent = 'Please select your
country.';
    valid = false;
  } else {
    document.getElementById('countryError').textContent = '';
  }
```

```
  // for hobbies
  const Hobby = documenr.getElementById('Hobby').value;
  if(hobby  === ''|| hobby.length < 2)
  {
    document.getElementById('You dont have hobby');
  }
  else {
    document.getElementById('Good').textContent = '';
  }



  const message = document.getElementById('message').value;
  if (message === '' || message.length < 10) {
    document.getElementById('messageError').textContent = 'Please enter a message
with at least 10 characters.';
    valid = false;
  } else {
    document.getElementById('messageError').textContent = '';
  }

  const terms = document.getElementById('terms').checked;
  if (!terms) {
    document.getElementById('termsError').textContent = 'You must agree to the
terms and conditions.';
    valid = false;
  } else {
    document.getElementById('termsError').textContent = '';
  }

  if (valid) {
    alert('Form submitted successfully!');
  }
});
```

Learning Outcomes:-

- Learnt about the form validation in the Javascript
- Get to know more about JS functionality
- Helped in learning the Regex Class in JS