Aim: Design a registration form with HTML5 form tags.

Program:

```
<!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>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 20px;
            padding: 20px;
            max-width: 600px;
            border: 1px solid #ddd;
            border-radius: 8px;
        }
        label {
            display: block;
            margin-bottom: 5px;
        }
        input, select {
            margin-bottom: 10px;
            width: 100%;
            padding: 8px;
            box-sizing: border-box;
        }
        .form-group {
            margin-bottom: 15px;
        }
    </style>
</head>
<body>

    <h1>Registration Form</h1>

    <form action="/submit" method="post">

        <!-- Text input -->
        <div class="form-group">
            <label for="username">Username:</label>
            <input type="text" id="username" name="username" required>
        </div>
```

```html
<!-- Password input -->
<div class="form-group">
  <label for="password">Password:</label>
  <input type="password" id="password" name="password" required>
</div>

<!-- Email input -->
<div class="form-group">
  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required>
</div>

<!-- Select dropdown -->
<div class="form-group">
  <label for="country">Country:</label>
  <select id="country" name="country" required>
    <option value="">Select your country</option>
    <option value="usa">United States</option>
    <option value="canada">Canada</option>
    <option value="uk">United Kingdom</option>
    <option value="australia">Australia</option>
  </select>
</div>

<!-- Color picker -->
<div class="form-group">
  <label for="color">Favorite Color:</label>
  <input type="color" id="color" name="color" value="#ff0000">
</div>

<!-- Range input -->
<div class="form-group">
  <label for="age">Age (between 18 and 100):</label>
  <input type="range" id="age" name="age" min="18" max="100" value="25" step="1">
  <output for="age" id="age-output">25</output>
</div>

<!-- Date input -->
<div class="form-group">
  <label for="birthdate">Birthdate:</label>
  <input type="date" id="birthdate" name="birthdate" required>
</div>
```

```html
<!-- Time input -->
<div class="form-group">
    <label for="appointment">Preferred Appointment Time:</label>
    <input type="time" id="appointment" name="appointment">
</div>

<!-- Radio buttons -->
<div class="form-group">
    <fieldset>
      <legend>Gender:</legend>
      <label>
        <input type="radio" name="gender" value="male" required>
        Male
      </label>
      <label>
        <input type="radio" name="gender" value="female" required>
        Female
      </label>
      <label>
        <input type="radio" name="gender" value="other">
        Other
      </label>
    </fieldset>
</div>

<!-- Checkboxes -->
<div class="form-group">
    <fieldset>
      <legend>Interests:</legend>
      <label>
        <input type="checkbox" name="interests" value="sports">
        Sports
      </label>
      <label>
        <input type="checkbox" name="interests" value="music">
        Music
      </label>
      <label>
        <input type="checkbox" name="interests" value="reading">
        Reading
      </label>
    </fieldset>
</div>
```

```html
    <!-- Submit button -->
    <div class="form-group">
      <button type="submit">Register</button>
    </div>

  </form>

  <script>
    // Update range output
    const rangeInput = document.getElementById('age');
    const output = document.getElementById('age-output');
    rangeInput.addEventListener('input', () => {
      output.textContent = rangeInput.value;
    });
  </script>

</body>
</html>
```

Output:

Registration Form

Username:

Password:

Email:

Country:
Select your country

Favorite Color:

Age (between 18 and 100):

25

Birthdate:
dd - mm - yyyy

Preferred Appointment Time:
-- : --

Gender:
Male
Female
Other

Interests:
Sports
Music
Reading

Register