

Comprehensive input types mastery exercise

Help your students prove they can choose and implement the right HTML input types with confidence. This handout blends decision-making, hands-on coding, and quick behavior checks.

Learning goals and setup

- **Focus:** Selecting the correct input type, understanding built-in behaviors, and applying them in a realistic form.
 - **By the end, students can:**
 - **Choose:** The most suitable input type for a given data field.
 - **Implement:** A complete form using varied input types correctly.
 - **Explain:** What the browser validates automatically for each type.
 - **What you need:**
 - **Editor:** Any code editor and a browser.
 - **Starter file:** A blank HTML page or the provided starter in Part B.
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Part A: Choose the right input type (write-in)

For each field, write the most appropriate input type (e.g., text, email, url, tel, password, number, range, date, time, datetime-local, month, week, color, file, radio, checkbox, hidden) and give a one-line reason.

1. **Q1:** Full name — _____ — **Reason:** _____
2. **Q2:** Email address — _____ — **Reason:** _____
3. **Q3:** Mobile number (Sri Lanka) — _____ — **Reason:** _____

4. **Q4:** National Identity Card (NIC) — _____ — **Reason:** _____
5. **Q5:** Password — _____ — **Reason:** _____
6. **Q6:** Personal website URL — _____ — **Reason:** _____
7. **Q7:** Age (integer 10–99) — _____ — **Reason:** _____
8. **Q8:** Satisfaction (1–5 slider) — _____ — **Reason:** _____
9. **Q9:** Date of birth — _____ — **Reason:** _____
10. **Q10:** Interview time — _____ — **Reason:** _____
11. **Q11:** Local appointment (date and time) — _____ — **Reason:**

12. **Q12:** Birth month only — _____ — **Reason:** _____
13. **Q13:** ISO week number (e.g., 2025-W33) — _____ — **Reason:**

14. **Q14:** Favorite theme color — _____ — **Reason:** _____
15. **Q15:** Upload resume (PDF/DOC/DOCX) — _____ — **Reason:**

16. **Q16:** Preferred contact method (choose one) — _____ — **Reason:**

17. **Q17:** Skills you have (choose many) — _____ — **Reason:**

18. **Q18:** Search query box — _____ — **Reason:** _____
19. **Q19:** Hidden referral code — _____ — **Reason:** _____
20. **Q20:** Portfolio links (allow multiple emails in one field? yes/no) — _____ —
Reason: _____

Tip: If you're unsure, ask "Does the browser give me a specialized UI or validation for this type?"

Part B: Build the "Tech Club signup" form

Implement the form according to the requirements. Focus on picking correct input types. Labels and grouping are encouraged but not the main grading criteria here.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Tech Club Signup</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style>
    body { font-family: system-ui, sans-serif; padding: 1rem; }
    .row { margin-bottom: 0.75rem; max-width: 520px; }
    label { display: block; margin-bottom: 0.25rem; }
    input, select, textarea { width: 100%; padding: 0.5rem; }
    fieldset { border: 1px solid #ccc; padding: 0.75rem; max-width: 520px; }
    legend { padding: 0 0.25rem; }
  </style>
</head>
<body>
  <h1>Tech Club Signup</h1>

  <form action="#" method="post">
    <!-- TODO 1: Full name -->
    <!-- TODO 2: Email address -->
    <!-- TODO 3: Mobile number (Sri Lanka) -->
    <!-- TODO 4: Personal website URL -->
    <!-- TODO 5: Password -->
    <!-- TODO 6: Date of birth -->
    <!-- TODO 7: Preferred meeting time -->
    <!-- TODO 8: Week you can start (ISO week) -->
    <!-- TODO 9: Experience level (1-10 slider) -->
    <!-- TODO 10: Favorite theme color -->
    <!-- TODO 11: Preferred contact method (choose one) -->
    <!-- TODO 12: Skills (choose many) -->
    <!-- TODO 13: Upload resume (PDF/DOC/DOCX) -->
    <!-- TODO 14: Hidden referral code with value CLUB-2025 -->

    <button type="submit">Join</button>
  </form>
</body>
</html>
```

- **Requirements:**
 - **Types:** Use the most appropriate input type for each TODO.
 - **Radio and checkbox:** Use **radio** for "Preferred contact method" and **checkbox** for "Skills."
 - **File:** Restrict upload types to PDF/DOC/DOCX using `accept`.
 - **Range:** Experience slider from 1 to 10, default 5.
 - **Hidden:** Include a hidden referral code with the given value.
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Part C: Built-in behavior checks (short answers)

Answer each in one or two sentences.

1. **Q1:** What happens if a user submits `<input type="email">` with value `hello@` and the field is required?
 2. **Q2:** In `<input type="number" min="0" max="10" step="2" value="3">`, is the value valid? What will the browser do?
 3. **Q3:** Does `<input type="tel">` enforce numeric-only input or a phone format by itself?
 4. **Q4:** What does `accept=".pdf, .doc, .docx"` on `<input type="file">` actually do? Is it a security guarantee?
 5. **Q5:** What is the value format submitted by `<input type="date">`? Is the on-screen date display the same across all locales?
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Deliverables and marking guide

- **What to submit:**
 - **Part A:** Completed type choices with reasons.
 - **Part B:** Your HTML file implementing the form.
 - **Part C:** Short written answers.
- **Marking (20 marks total):**
 - **Part A (8 marks):**
 - **Correct type choice (0.3 each):** 6 marks total.
 - **Reason quality (0.1 each):** 2 marks total.
 - **Part B (10 marks):**
 - **Correct types used (6):** Radios, checkboxes, date/time/week/range/color/email/url/tel/password/file/hidden used appropriately.
 - **File accept set (1):** Correct extensions.
 - **Range configured (1):** min/max/value correct.
 - **Radio vs checkbox choice (1):** One vs many correctly modeled.
 - **Hidden field present (1):** Correct value.
 - **Part C (2 marks):**
 - **Accurate behavior explanations (0.4 each).**

- **Common pitfalls to avoid:**
 - **Using text instead of email/url/tel:** Misses built-in UI/validation.
 - **Using number for IDs:** Breaks leading zeros; IDs like NIC can include letters.
 - **Forgetting file accept:** Poor UX for uploads.
 - **Misusing radio/checkbox:** Radios must share one name; checkboxes allow multiples.
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