Topic 3 — Lists in HTML : By Gagan Baghel

Concepts Covered:

`<ul>`, `<ol>`, `<li>`, nested lists, `<dl>`, `<dt>`, `<dd>`, list types (`type` and `start` attributes).

🎯 Learning Objective:

To understand how to create and style different types of lists (unordered, ordered, nested, and descriptive) to organize content clearly and semantically.

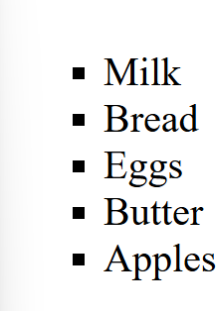
🧩 Practice Tasks (10 Total)

Task 1: Create a Shopping List (Unordered List)

Goal: Learn to create a simple unordered list.

Instructions:

1. Create a file `shopping-list.html`.
2. Inside `<body>`, add `<h2>` — "My Shopping List".
3. Create an unordered list `<ul>` containing at least 5 items.
4. Use the `type` attribute (`disc`, `circle`, `square`) to test different bullet styles.
5. Add a comment describing which bullet style looks best.
6. output :

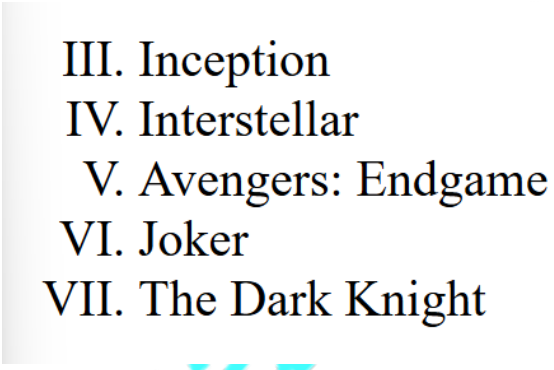


Task 2: Create a Favorite Movies List (Ordered List)

Goal: Understand ordered lists and numbering.

Instructions:

1. Create `movies.html`.
2. Use `<h2>` — “Top 5 Favorite Movies”.
3. Use `<ol>` with `<li>` to list your movies.
4. Experiment with the `type` attribute (`1`, `A`, `a`, `I`, `i`).
5. Use the `start` attribute to begin numbering from a specific number.
6. output :

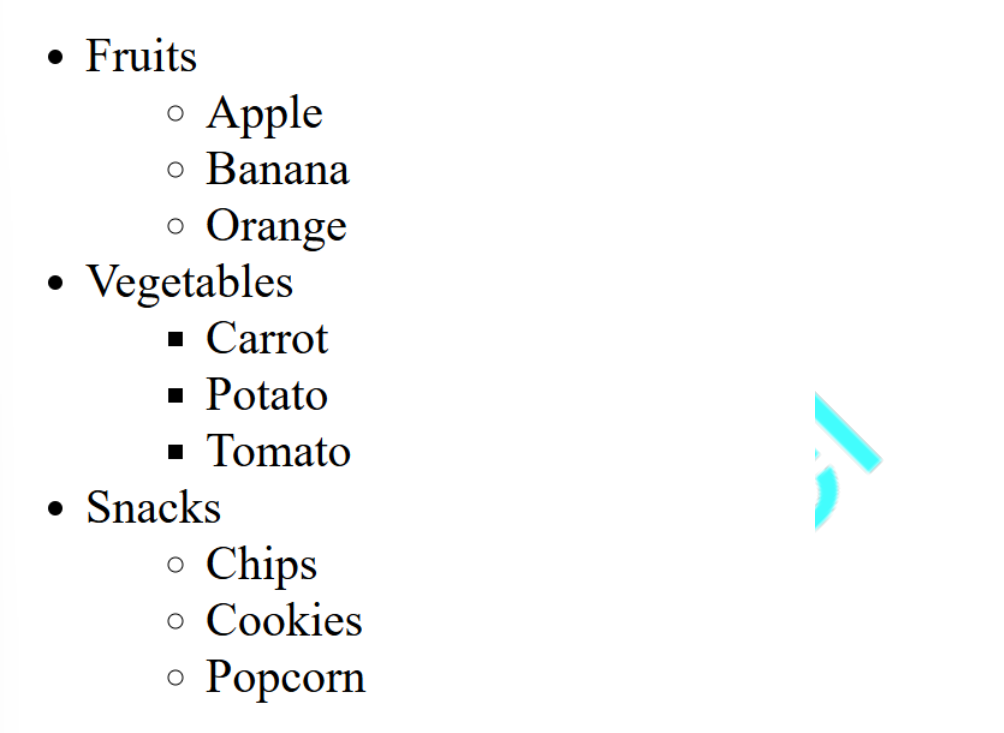


Task 3: Create a Nested List of Categories

Goal: Learn to nest lists inside others.

Instructions:

1. Create `categories.html`.
2. Create a main unordered list for categories: “Fruits”, “Vegetables”, “Snacks”.
3. Under each category, nest another list of 3–4 items using `<ul>`.
4. Experiment with different bullet styles for inner lists.
5. Add comments to explain parent-child list relationships.
6. output :



Task 4: Create a Daily Routine (Ordered + Nested List)

Goal: Mix ordered and unordered lists.

Instructions:

1. Create `daily-routine.html`.
2. Create an ordered list for your daily schedule: Morning, Afternoon, Evening.
3. Under each, add a nested unordered list for tasks (e.g., Morning → Wake up, Breakfast).
4. Use indentation properly to keep hierarchy readable.
5. Add a `<h2>` heading “My Daily Routine”.
6. output :

1. Morning
    - Wake up
    - Brush teeth
    - Exercise
    - Breakfast
2. Afternoon
    - Work/Study
    - Lunch
    - Short nap
3. Evening
    - Go for a walk
    - Dinner
    - Read a book
    - Sleep

Task 5: Create a Glossary Page (Description List)

Goal: Understand description lists (`<dl>` , `<dt>` , `<dd>`).

Instructions:

1. Create `glossary.html` .
2. Use `<dl>` to define at least 5 web terms.

   Example:

   ```
   <dt>HTML</dt>
   <dd>HyperText Markup Language — structure of web pages.</dd>
   ```

3. Add `<hr>` after every 2 definitions.
4. Comment explaining what `<dt>` and `<dd>` stand for.
5. output :

HTML
: HyperText Markup Language — structure of web pages.

CSS
: Cascading Style Sheets — used for styling HTML elements.

JavaScript
: Programming language for interactivity and logic.

React
: JavaScript library for building user interfaces.

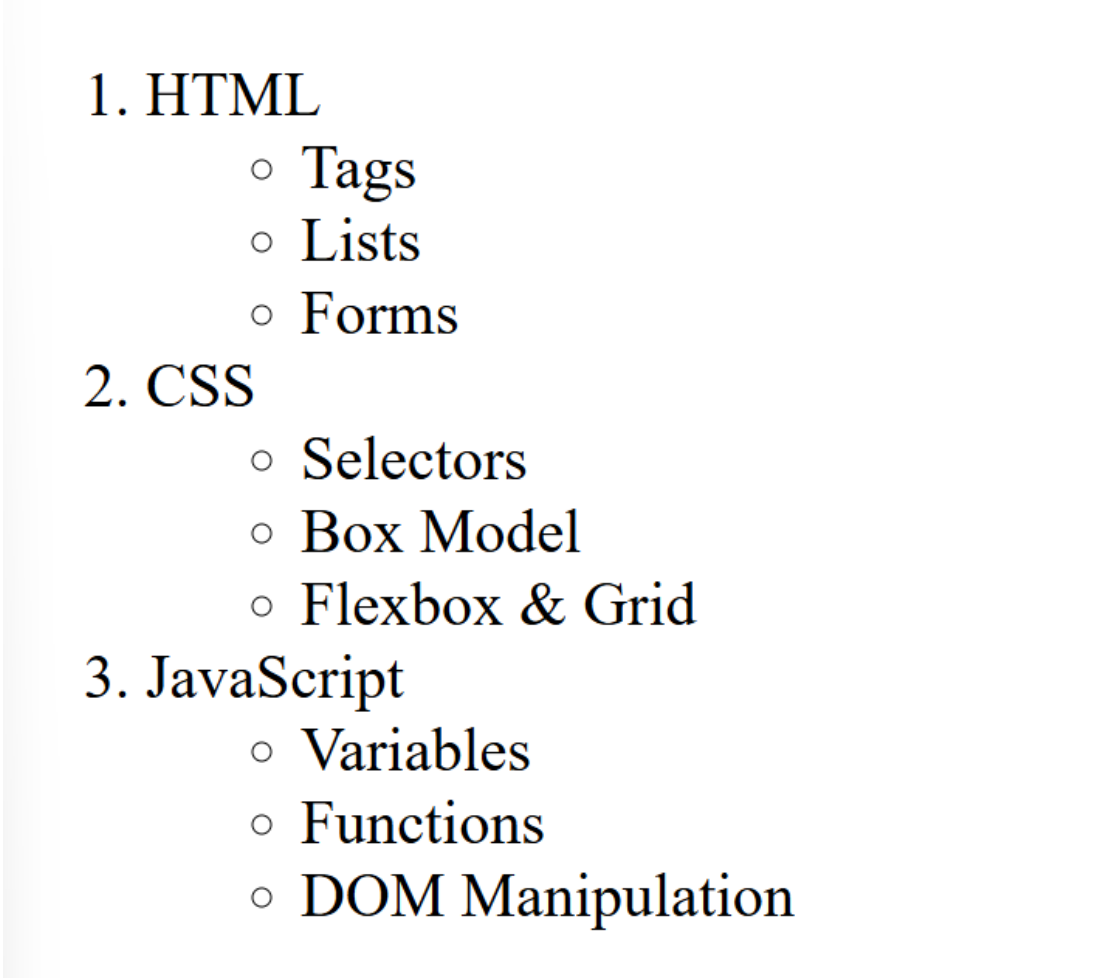
Node.js
: Runtime environment for running JS on the server.

Task 6: Create a "Course Curriculum" Page

Goal: Practice complex nested lists.

Instructions:

1. Create `course.html`.
2. Use `<h2>` — "Web Development Curriculum".
3. Use `<ol>` for modules (HTML, CSS, JavaScript).
4. Under each, nest `<ul>` for subtopics (e.g., HTML → Tags, Lists, Forms).
5. Use consistent indentation for clarity.
6. output :

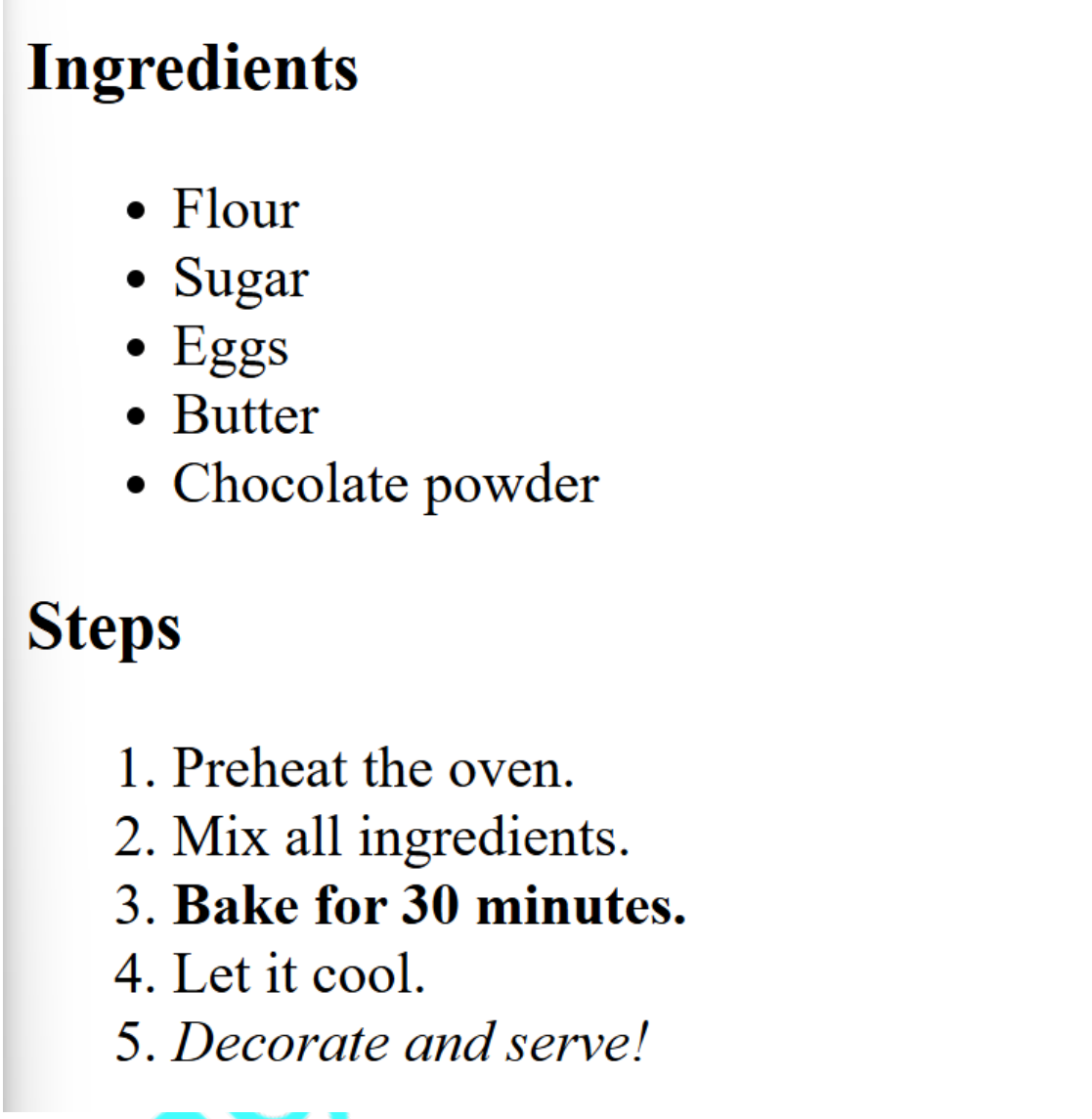


Task 7: Create a "Recipe Ingredients" Page

Goal: Learn logical list grouping.

Instructions:

1. Create `recipe.html`.
2. Add `<h2>` — "Chocolate Cake Recipe".
3. Create two main lists: Ingredients (unordered) and Steps (ordered).
4. For "Steps", include 5 cooking steps in sequence.
5. Highlight important steps using `<strong>` or `<em>`.
6. output :



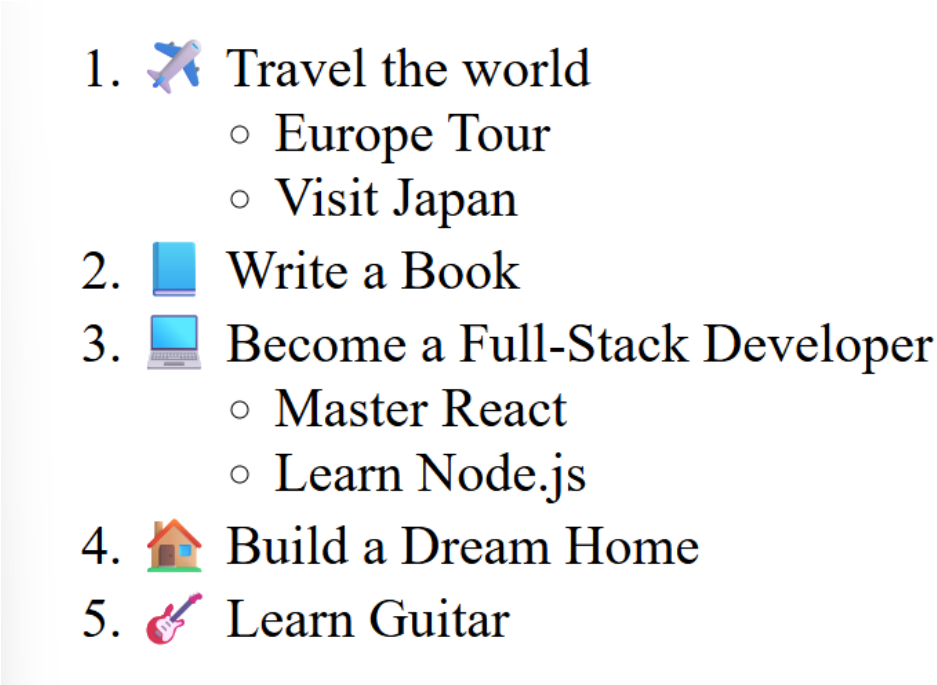
Task 8: Create a "Bucket List" Webpage

Goal: Experiment with list customization and semantics.

Instructions:

1. Create `bucket-list.html`.
2. Add a heading "My Life Goals".
3. Use `<ol>` for 10 items you want to achieve.
4. Use nested `<ul>` for sub-goals under a few main goals.

5. Add emojis or special characters before list items (use HTML entities or press window + .)
6. output :



Task 9: Create a "Tech Stacks" Hierarchical List

Goal: Practice multi-level nested lists.

Instructions:

1. Create `tech-stack.html` .
2. Add `<h2>` — "Full Stack Developer Skill Map".
3. Main list: Frontend, Backend, Database, Tools.
4. Under each, add nested `<ul>` listing specific technologies.

   Example:

   - Frontend → HTML, CSS, JavaScript, React
   - Backend → Node.js, Express
   - Database → MongoDB

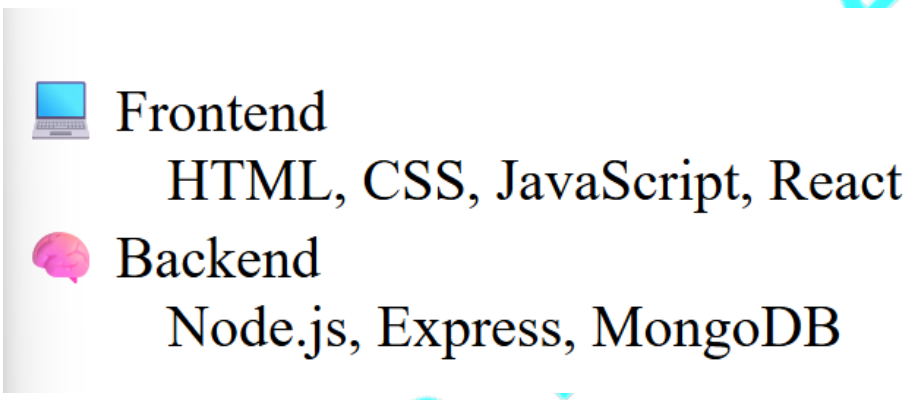
5. Use comments to label each hierarchy level.
6. output :

Task 10: Create a "Comparison Table using Lists"

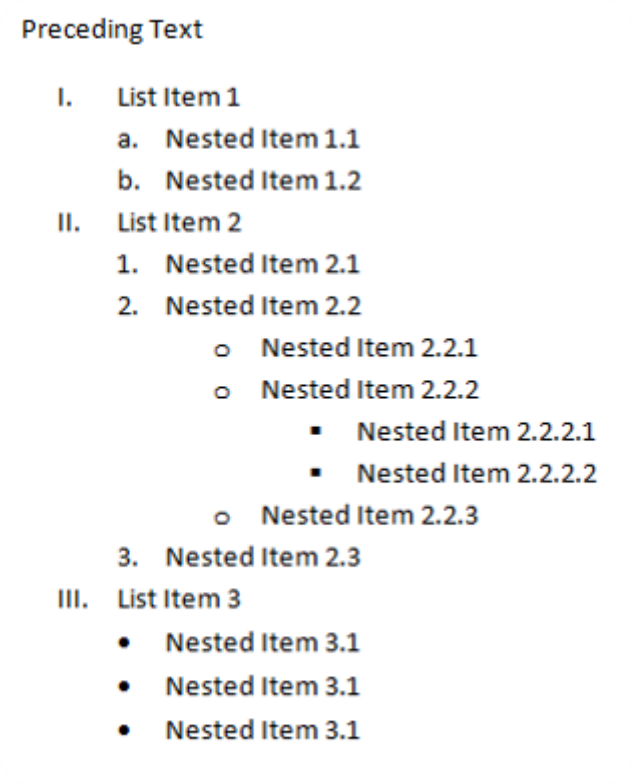
Goal: Simulate table-style data with lists.

Instructions:

1. Create `comparison.html`.
2. Add `<h2>` — “Frontend vs Backend Technologies”.
3. Create a `<dl>` list:
    - `<dt>Frontend</dt>` → `<dd>HTML, CSS, JS, React</dd>`
    - `<dt>Backend</dt>` → `<dd>Node.js, Express, MongoDB</dd>`
4. Add styling or emojis to differentiate visually.
5. output :



Extra questions :



💡 Pro Tips for Students

- Use **unordered lists** for non-sequential items and **ordered lists** for steps or rankings.
- Keep lists properly **indented** to make HTML readable.
- Always **close** `<li>` **tags**, especially when nesting.
- **Description lists** are great for glossaries or key-value data.
- Test nested lists in the browser to understand visual hierarchy.
- Use HTML entities like `&bull;`, `&rarr;`, or emojis for creative list styles.