

HYPER TEXT MARKUP LANGUAGE (HTML)

Using Lists in HTML



CBSE

In HTML, a list is a collection of related items that are grouped together for the purpose of displaying them in a structured and organized manner. Lists are used to present information in a clear and readable format, making it easy for users to follow and understand the content.



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Lists in HTML are essential for organizing content and improving the structure, readability, and usability of web pages.



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Here are some key reasons why lists are important in HTML:

1. Organization and Structure:

Lists help in organizing content in a clear and logical manner. They allow you to group related items together, making it easier for users to understand the information presented.

2. Improved Readability:

Lists break down information into manageable chunks, enhancing readability. They make it easier for users to scan content quickly, especially on mobile devices.

4. Consistency and Uniformity:

Lists provide a consistent way to present repeated elements or sequences. This uniformity helps users anticipate the structure and enhances their overall experience.

6. Enhanced User Interaction:

Ordered and unordered lists can be used to create interactive elements like navigation menus, to-do lists, and more, enhancing user engagement.

7. Accessibility:

Proper use of lists ensures that content is accessible to users with disabilities. Screen readers can announce the number of items in a list and their order, providing context to visually impaired users



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Types of HTML Lists

HTML provides different types of lists to display data in various forms. Each list contains one or more list items.



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1. **Unordered List:** Displays items using bullets.
2. **Ordered List:** Displays items in a numerical sequence, and supports various numbering styles like Arabic numerals, Roman numerals, and so on. An ordered list is used for items that need to be displayed in a specific sequence. Items in an ordered list are typically marked with numbers or letters.
3. **Definition List:** Organizes items in a format similar to a dictionary, with terms and their corresponding definitions.
4. **Nested List:** A nested list shows items arranged in levels. The main items come first, and related sub-items are placed underneath them with an indent to show the relationship.

Unordered List:

An Unordered list is a list of items that are marked with burden. The Unordered list is created by using `` tag are the list items in the list are created by `` tag and the list items in the list are created by `` tag.

The elements are typically indicated by bullet points (•) but can be customized with disc (◦), circle (o), and square shapes (■).

Example:

```
<ul>
  <li>Apples</li>
  <li>Bananas</li>
  <li>Oranges</li>
</ul>
```

Output (browser)

- Apples
- Bananas
- Oranges

Ordered List in HTML

These are also called numbered lists in HTML. It represents the HTML list items, which are sequentially ordered, either in increasing (1, 2, 3, etc.) or decreasing (3, 2, 1, etc.) order.

An ordered list is represented by either numbers, letters (A, B, C, etc.), or roman numerals (I, II, III, etc.).



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Example:

```
<ol>
  <li>Install software</li>
  <li>Configure settings</li>
  <li>Run the program</li>
</ol>
```

Output

1. Install software
2. Configure settings
3. Run the program

Attributes of Ordered List:

1. Start Attribute

👉 **Purpose:** Sets the number where the list should begin instead of 1.

Example:

```
<ol start="5">
  <li>Step Five</li>
  <li>Step Six</li>
  <li>Step Seven</li>
</ol>
```

Output:

5. Step Five
6. Step Six
7. Step Seven

2. Reversed Attribute

👉 **Purpose:** Makes the list count backwards (descending order).

Example:

```
<ol reversed>
  <li>Final Step</li>
  <li>Second Step</li>
  <li>First Step</li>
</ol>
```

Output:

3. Final Step
2. Second Step
1. First Step

3. Type Attribute

👉 **Purpose:** Defines the numbering style (letters, numbers, Roman numerals).

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- type="1" → Default numbers (1, 2, 3)
- type="A" → Uppercase letters (A, B, C)
- type="a" → Lowercase letters (a, b, c)
- type="I" → Uppercase Roman numerals (I, II, III)
- type="i" → Lowercase Roman numerals (i, ii, iii)

Definition Lists:

These lists include both definition terms as well as their definition. To create the definition lists we use <dl> tag. For creating definition terms we use <dt> tag and for data definitions we use <dd> tag.

Nested List:

A nested list is a list that is placed inside another list in HTML, used to display sub-items under a main item.

Solved Example on Nested List:-

```
<!doctype html>
<html>
<head>
<title>Nested List</title>
</head>
<body>
<ul>
<li>Fruits
<ul>
<li>Apple</li>
<li>Banana</li>
<li>Mango</li>
</ul>
</li>
<li>Vegetables</li>
</ul>
</body>
</html>
```

Output:

- Fruits
 - Apple
 - Banana
 - Mango
- Vegetables

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An Unordered HTML list using square bullet (Career Options in Physical Education)

- Physical Education teacher
- Coach
- Personal trainer
- Fitness Consultant
- Athletic Director
- Therapist
- Dietitian
- Fitness Instructor
- Sports journalist
- Camp Administrator
- Yoga
- Wellness teacher
- Professor
- Professional sports scout
- Kinesiology
- Teaching career
- Health Educator
- Dance instructor
- Sports Management
- Physiotherapist

Ques 1

An unordered HTML list (Home Appliances)

- Washing Machine
- Oven
- Gyser
- Toaster
- Dishwasher
- Refrigerator
- Television
- Vacuum Cleaner
- Air Purifier
- Blender
- Dryer
- Electric Grinder
- Ice Makers
- Roti Makers

Ques 2

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An Unordered HTML list using square bullet (Engineering Entrance Examinations in India)

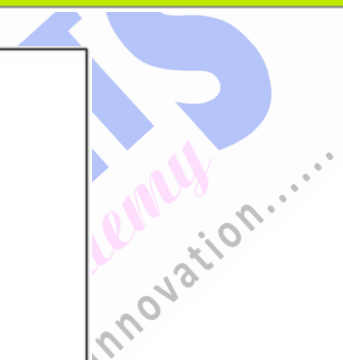
- Engineering Agricultural and Medical Common Entrance Test
- Joint Entrance Examination (JEE)
- Kerala Engineering Agricultural Medical
- Graduate Aptitude Test in Engineering (GATE)
- Odisha Joint Entrance Examination
- Maharashtra Common Entrance Test
- Rajasthan Pre-Engineering Test (RPET) / Rajasthan Engineering Admission Process (REAP)
- Birla Institute of Technology and Science Admission Test
- Tamil Nadu Engineering Admission
- Consortium of Medical, Engineering and Dental Colleges of Karnataka
- Gujarat Common Entrance Test (GUJCET)
- Electric Grinder
- Karnataka Common Entrance Test (KCET)
- Goa Common Entrance Test (GCET)

Ques 3

Common customizations of unordered lists:

- HTML
 - CSS
 - JavaScript
 - React JS
-
- C
 - C++
 - Java
 - Python
 - C#
-
- Data Science
 - Artificial Intelligence
 - Machine Learning
 - Data Analytics

Ques 4



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Ordered HTML list using numbers
(Different Career Options in Software Engineering)

1. Game Engineer
2. Project Manager
3. Junior Software Engineer
4. Engineer I
5. Embedded systems
6. Data Engineer
7. Cloud Consultant
8. Web Developer
9. DevOps Engineer
10. Data Scientist
11. Computer programmer
12. Blockchain Developer
13. Security Engineer
14. Quality Assurance Engineer
15. Mobile app developer
16. Engineering Manager
17. Backend Engineer
18. Application Analyst
19. Software Architect
20. Cloud Engineer
21. Software Engineer
22. Senior Software Engineer
23. Full Stack Developer

Ques 5

- Coffee
 - Cappuccino
 - Americano
 - Espresso
- Tea
 - Milk Tea
 - Black Tea
- Milk

Ques 6

Mobile Operating System

- Android
- Blackberry
- iPhone
- Windows Phone

Ques 7

Mobile Manufacturers

- Samsung
- HTC
- Micromax
- Apple



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Class 12 Syllabus

1. Mathematics

- Algebra
 - Relations and Functions
 - Inverse Trigonometric Functions
- Calculus
 - Limits and Continuity
 - Differentiation
 - Integration
 - Applications of Derivatives

2. Physics

- Electrostatics
 - Electric Charges
 - Electric Field and Potential
- Optics
 - Ray Optics
 - Wave Optics

3. Chemistry

- Physical Chemistry
 - Solid State
 - Solutions
 - Electrochemistry
- Organic Chemistry
 - Aldehydes and Ketones
 - Amines
 - Biomolecules

Ques 8

Top 5 Emerging Technologies

5. Artificial Intelligence (AI)
 - Machine Learning
 - Natural Language Processing (NLP)
 - Computer Vision
6. Blockchain
 - Cryptocurrencies
 - Smart Contracts
 - Decentralized Finance (DeFi)
7. Cybersecurity
 - Network Security
 - Cloud Security
 - Data Protection
8. Internet of Things (IoT)
 - Smart Homes
 - Wearable Devices
 - Industrial IoT
9. Quantum Computing
 - Quantum Algorithms
 - Quantum Cryptography
 - Quantum Hardware

Ques 9



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Ingredients for Maggie for Dinner
Here is what you will need:

1. 1 cup water per Maggie cake
2. ½ tablespoon Salt
3. ½ tablespoon Red Chilli
4. Peas
5. Corn
6. Onions
7. Tomatoes
8. French Beans
9. Protein (Paneer or Cheese)

Ques 10

The Procedure for Dinner Maggie:

1. Caramelize the onions, saute the peas, corn, tomatoes, and beans in a pan
2. Add the salt and red chili.
3. Cook the cheese or paneer.
4. Boil the water in a pot
5. Add the magic masala once the water starts boiling
6. Add the veggies in and let them stew for 4–5 minutes
7. Add the Maggie, cover the pot and cook on a low flame for 3–4 minutes
8. Once the noodles start softening, add the paneer or cheese (or both!)
9. Let sit for 5 minutes after turning off the gas
10. Serve hot and enjoy.

10 Line Speech On Value Of Education

- A. Education is the acquisition of new knowledge or the study of past experiences and cultures.
- B. Education is passed onto the next generation in a way that can be used to create a prosperous future.
- C. We have acquired our behaviour and perception from either receiving instructions or seeing the world around us.
- D. The importance of education enables us to become aware of our abilities, which allows us to go the extra mile.
- E. Education helps people to develop strong morals and ethical values in themselves.
- F. The first values we learn in school are reading, writing, and comprehending.
- G. The spread of technology and information will increase as we receive more proper education.
- H. The importance of education can never be diminished by a natural or man-made tragedy.
- I. Our generation will progressively develop into reasonable creatures if education is centred on values and integrity and supported by moral standards.
- J. A nation's economic stability is significantly influenced by the value of education.

Ques 11



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Example of Definition List

CSE	Computer Science & Engineering	
ECE	Electronics & Communication Engineering	
IT	Information Technology	
EEE	Electrical & Electronics Engineering	
CE	Civil Engineering	
AE	Aerospace engineering	<u>Ques 12</u>
BME	Biomedical engineering	
RE	Robotics Engineering	

Example of Definition List Computer Abbreviations for Basic Components

BIOS –	Basic Input Output System	
BYTE –	Storage Unit	
CPU –	Central Processing Unit	
HDD –	Hard Disk Drive	
LCD –	Liquid Crystal Display	
OS –	Operating System	<u>Ques 13</u>
PC –	Personal Computer	
RAID –	Redundant Array of Independent Disks	
RAM –	Random Access Memory	
RDMA –	Remote Direct Memory Access	
ROM –	Read Only-Memory	
SATA –	Serial Advanced Technology Attachment	
SSD –	Solid State Drive	
VGA –	Video Graphics Array	

