HTML Notes for Web Development

1. Introduction to HTML

HTML (HyperText Markup Language) is the standard language for creating web pages. It structures content using elements and tags.

2. Paragraphs and Headings

Paragraphs: HTML paragraphs are created using the <p> tag.

    <p>This is a paragraph.</p>

Headings: HTML provides six levels of headings (<h1> to <h6>).

    <h1>Main Heading</h1>
    <h2>Subheading</h2>

3. Text Formatting

- <b>: Bold text
- <i>: Italic text
- <u>: Underlined text

4. Lists

Unordered List:

     Item 1
     Item 2
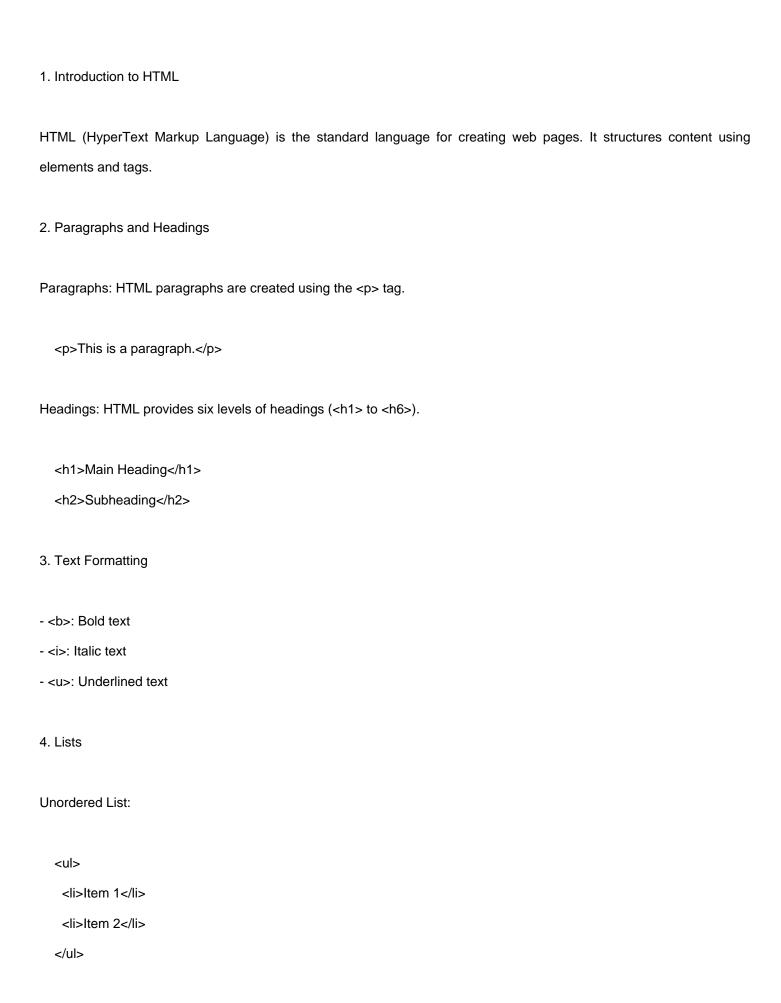

Ordered List:

```
<ol>
  <li>First item</li>
  <li>Second item</li>
</ol>
```

5. Links

Hyperlinks (<a>) allow navigation:

```
<a href="https://www.example.com">Visit Example</a>
```

6. Images

```
<img src="image.jpg" alt="Image description" width="300">
```

7. Tables

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>John</td>
    <td>25</td>
  </tr>
</table>
```

8. Forms

```
<form action="submit.php" method="post">

  <label for="name">Name:</label>

  <input type="text" id="name" name="name" required>

  <input type="submit" value="Submit">

</form>
```

9. HTML Attributes

- id: Unique identifier

- class: Defines a class for styling

- style: Inline CSS styling

10. HTML5 Semantic Elements

- <header>: Page header

- <nav>: Navigation menu

- <section>: Section of content

11. HTML Forms and Input Types

- text, password, email, number, date, checkbox, radio

12. HTML Media

Video:

```
<video controls>

  <source src="video.mp4" type="video/mp4">

</video>
```

Audio:

```
<audio controls>
```

```
    <source src="audio.mp3" type="audio/mpeg">

  </audio>
```

13. HTML Meta Tags

```
  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

14. HTML Comments

```
  <!-- This is a comment -->
```

15. HTML Entities

< (<) > (>) & (&)

16. HTML Iframes

```
  <iframe src="https://www.example.com" width="600" height="400"></iframe>
```

17. HTML Best Practices

- Use semantic tags.

- Keep code clean and well-indented.

- Optimize images for faster loading.