

2. Purpose of Comments in HTML

The primary purposes of comments in HTML are:

1. **Documentation:** Comments help explain what the code is doing. This is useful for anyone reading the code, including yourself if you come back to it after some time.
2. **Debugging:** Comments can be used to temporarily disable parts of the code without deleting them, which helps in troubleshooting issues.
3. **Collaboration:** Comments help communicate with other developers about specific parts of the code, making it easier to understand and maintain.
4. -----

4. Tags are the building blocks of an HTML document. They are used to create elements that define the structure and content of a web page. Tags usually come in pairs: an opening tag and a closing tag, with content between them.

- **Syntax:** <tagname>content</tagname>
- **Example:** <p>This is a paragraph.</p>

Some tags are self-closing and don't need a closing tag.

- **Self-closing tag:**

Elements in HTML

Elements consist of the opening tag, the content, and the closing tag. An element can include other elements, creating a nested structure.

- **Syntax:** <tagname>content</tagname>
- **Example:** <p>This is a paragraph.</p>

Elements can have attributes that provide additional information about the element. Attributes are placed within the opening tag.

- **Example with attribute:** Visit

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Sample HTML Document</title>
```

```
</head>
```

```
<body>
```

```
  <h1>Hello, World!</h1>
```

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

```
</body>
```

</html>

📖 **Placement:** The DOCTYPE declaration must be at the very top of the HTML document.

📖 **HTML5:** For HTML5, the declaration is simply <!DOCTYPE html>.

📖 **Browser Rendering:** Helps browsers to render the page in standards mode rather than quirks mode, ensuring consistency across different web browsers.

index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>HTML1</title>
7 </head>
8 <body>
9     <H1 style="color: olivedrab;">
10         <i>"HTML defines the content and structure of your websites"</i>
11     </H1>
12 </body>
13 </html>
```

index2.html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <h2 style="color: rgb(248, 64, 94);">Hello!Sameeksha this side</h2>
10     <h2>Pleased to meet you guys!</h2>
11 <span>b-tech</span>
12 <br/>
13 <span>passionate toward coding</span>
14
15     <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Inventore tenetur aut labore, cupiditate quidem at veritatis
asperiores eos illo, magnam sunt beatae sapiente sit itaque doloremque, et impedit porro. Nesciunt.</p>
16     <hr/>
17
18 </body>
19 </html>
```