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1. Simple HTML Program to Display a Heading

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML Structure</title>
</head>
<body>
    <h1>HTML defines the content and structure of your website</h1>
</body>
</html>
```

---

2. Purpose of Comments in HTML

Purpose of Comments in HTML:

- Comments are used to add notes or explanations in the code.
- They do not appear in the web browser.
- Helpful for developers to understand the code.

Example of Comments in HTML:

```
<!DOCTYPE html>
<html>
<head>
    <title>Comments in HTML</title>
</head>
<body>
    <!-- This is a comment in HTML -->
    <h1>Welcome to My Website</h1>
    <p>This is a paragraph.</p>
    <!-- Comments help in code readability -->
</body>
</html>
```

---

3. HTML Program with Heading, Paragraph, Horizontal Line, and Line Break

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Web Page</title>
</head>
<body>
    <h1>Welcome to My Web Page</h1>
    <p>This is a simple paragraph describing my web page.</p>
    <hr> <!-- This is a horizontal line -->
    <p>First line of text.<br>Second line of text after a line break.</p>
</body>
</html>
```

---

4. Short Note on Tag and Element

- **Tag**: A tag is a keyword enclosed in angle brackets (`<>`). It defines how content should be displayed in HTML.
- **Element**: An element consists of a start tag, content, and an end tag.

Example:

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

Here:

- `<p>` is the **start tag**.
- `"This is a paragraph."` is the **content**.
- `</p>` is the **end tag**.
- Together, they form a **paragraph element**.

---

5. What is the DOCTYPE Declaration in HTML?

The DOCTYPE declaration defines the document type and version of HTML being used. It ensures the browser renders the page correctly.

Example of DOCTYPE Declaration in HTML5:

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML5 Example</title>
</head>
<body>
    <h1>Welcome to HTML5</h1>
</body>
</html>
```