HTML Notes – Section 1: Document Structure

<!DOCTYPE html>

Explanation: Declares document type. Ensures browser uses HTML5 standard mode (not quirks mode).

Attributes: None

Attribute explanation:
No attributes.

Code snippet:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Doctype Example</title>
  </head>
  <body>
    <p>This page is using HTML5 doctype.</p>
  </body>
</html>
```

<html>

Explanation: Root element that contains the entire document. Must wrap and .

Attributes: lang, dir, id, class, title, data-*

Attribute explanation:
lang: Document language (e.g., en, hi).
dir: Text direction (ltr or rtl).
id: Unique identifier.
class: Grouping/styling.
title: Tooltip text.
data-*: Custom data attributes.

Code snippet:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <title>HTML Tag Example</title>
  </head>
  <body>
    <p>The root element defines the whole document.</p>
  </body>
</html>
```

<head>

Explanation: Contains metadata (information about the page). Not displayed directly to users.

Attributes: id, class, title, data-*

Attribute explanation:
Global attributes are rarely used here, but possible (id, class, title, data-*).

Code snippet:

```
<!DOCTYPE html>
<html>
<head>
  <title>Head Example</title>
  <meta charset="UTF-8">
</head>
<body>
  <p>Head section contains metadata only.</p>
```

```
</body>
</html>
```

<title>

Explanation: Defines the title of the page (shown on browser tab & in search engine results). Must be inside .

Attributes: id, class, title, data-*

Attribute explanation:
Typically no attributes are needed here except optional global ones.

Code snippet:

```
<!DOCTYPE html>
<html>
<head>
  <title>My Awesome Page</title>
</head>
<body>
  <p>The title is visible on the browser tab.</p>
</body>
</html>
```

<body>

Explanation: Contains all visible content of the page (headings, paragraphs, images, links, etc.).

Attributes: onload, onunload, id, class, title, style, data-*

Attribute explanation:
onload: Run script when page finishes loading.
onunload: Run script when page is closed.
style: Inline CSS styling.
id, class, title, data-*: Global attributes for styling and scripting.

Code snippet:

```
<!DOCTYPE html>
<html>
<head>
  <title>Body Example</title>
</head>
<body onload="alert('Page loaded!')">
  <h1>Welcome!</h1>
  <p>This is content inside the body.</p>
</body>
</html>
```