### HTML NOTES What are the different kinds of Doctypes available?

The three kinds of Doctypes which are available:

* Strict Doctype : Used for web pages that exclude attributes and elements that W3C expects to phase out as CSS support grows
* Transitional Doctype : Used for web pages that include attributes and elements that W3C expects to phase out as CSS support grows
* Frameset Doctype :

**How to optimize website assets loading?**

To optimize website load time we need to optimize its asset loading and for that:

* **CDN hosting** - A CDN or content delivery network is geographically distributed servers to help reduce latency.
* **File compression** - This is a method that helps to reduce the size of an asset to reduce the data transfer
* **File concatenation** - This reduces the number of HTTP calls
* **Minify scripts** - This reduces the overall file size of js and CSS files
* **Parallel downloads** - Hosting assets in multiple subdomains can help to bypass the download limit of 6 assets per domain of all modern browsers. This can be configured but most general users never modify these settings.
* **Lazy Loading** - Instead of loading all the assets at once, the non-critical assets can be loaded on a need basis.

### What are void elements in HTML?

HTML elements which do not have closing tags or do not need to be closed are Void elements. For Example <br />, <img />, <hr />, etc.

### What are HTML Entities?

In HTML some characters are reserved like ‘<’, ‘>’, ‘/’, etc. To use these characters in our webpage we need to use the character entities called HTML Entities. Below are a few mapping between the reserved character and its respective entity character to be used.

| **Character** | **Entity Name** | **Entity Number** |
| --- | --- | --- |
| < | &lt; | &#60; |
| > | &gt; | &#62; |
| & | &amp; | &#38; |
| (non-breaking space) Eg. 10  PM | &nbsp; Eg. <p>10&nbsp&nbspPM</p> | &#160; |

Q) what is doctype in html5 ?  
Ans : The DOCTYPE declaration in HTML stands for Document Type Declaration. It's an instruction at the very beginning of an HTML document that tells the web browser which version of HTML the code is written in.

**Informs the browser:** The DOCTYPE declaration helps the browser understand how to interpret the HTML code and render the webpage correctly.

**Ensures consistency:** By knowing the HTML version, the browser can apply the appropriate rules for displaying the elements and styling on the webpage. This helps make sure the webpage looks consistent across different browsers.

### Q) How to specify the link in HTML and explain the target attribute?

1. **\_self**: This is a default value. It opens the document in the same window or tab as it was clicked.
2. **\_blank**: It opens the document in a new window or tab.
3. **\_parent**: It opens the document in a parent frame.
4. **\_top**: It opens the document in a full-body window

### Difference between link tag <link> and anchor tag <a>?

The anchor tag <a> is used to create a hyperlink to another webpage or to a certain part of the webpage and these links are clickable, whereas, link tag <link> defines a link between a document and an external resource and these are not clickable.