1. **What is the difference between writing the HTML code in a text editor (such as VS Code, Sublime, Atom) and a word document?**

In a word document, we cannot get suggestions about tags and we cannot get clarity about how we did a code. But in Text editors, we get suggestions about tags and properties and the clarity will be maintained

1. **What is the purpose of the first tag in the HTML document?**

The first tag in any HTML file is the <HTML> tag. This tells web browsers that the document is an HTML file.

1. **Which HTML tags in HTML do not have any visual appearance? What is the purpose of such tags?**

<meta> tag contains meta information about the document which do not have any visual appearance.

1. **Is it possible to create user-defined tags in HTML?**

Yes, we can create user-defined tags in HTML using predefined tags.

1. **Which HTML tag is the most powerful? Hint: It enables the world wide web**

<href> tag is most powerful tag because using this tag we can link one file to other file and we can also link https links.

1. **Is there a compiler or interpreter for the HTML code? Which software package does the job of taking HTML code as input, checks the tags and generates the output?**

There is no compiler or interpreter for the HTML code. Browsers does the job of taking html code as input and generating output.

1. **Which data structure is used to represent the HTML page in the browser?**

DOM (Document Object Model) is used to represent the HTML page in the browser. This is used to represent the webpage in the structured hierarchical manner.

Reference: <https://www.geeksforgeeks.org/dom-document-object-model/>