1. **What is the difference between writing the HTML code in a text editor (such as VS Code, Sublime, and Atom) and a word document?**
2. Writing HTML code in a text editor like VS Code will be much helpful because it suggests the tags automatically and by color difference we can get a clear view on different lines. In word we don’t get any suggestions we need to write fully.

We can use SASS tool easily to generate CSS file from SCSS file but when we use word document it is of much complex that to install SASS tool and by using commands we have to make use of SASS tool.

Text editors will be better while writing the HTML codes as it automatically writes the tag at end so there will be no issues of incomplete tags.

1. **What is the purpose of the first tag in the HTML document?**
2. We use <! DOCTYPE html> and <HTML> tag in order to tell the browser that the document is an HTML file.
3. **Which HTML tags in HTML do not have any visual appearance? What is the purpose of such tags?**
4. <! DOCTYPE html> and <HTML> tags doesn’t have visual appearance because DOCTYPE is used to represent which type of document to the browser.

Where HTML tag is used to write all the HTML tags inside the HTML body.

<HTML> Head and body is required in order to create a webpage </HTML>

1. **Is it possible to create user-defined tags in HTML?**
2. Yes, it is possible to create user-defined tags in HTML.
3. **Which HTML tag is the most powerful? Hint: It enables the world wide web**
4. <Link> tag is powerful as we provide bootstrap and CSS files in it. But <a> tag is much powerful because we use HTTP links and also to provide hyperlinks of our different pages. So that we can re direct to any page using this tag.
5. **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?**
6. HTML doesn’t have any interpreter or a compiler because it is not just like an all programming languages. We use DOCTYPE and HTML tags in order to represent that DOC type to the browser. So different browsers does the part of generating output as per the input data or a code.
7. **Which data structure is used to represent the HTML page in the browser?**
8. **DOM (**Document object model) is used by browsers. As it is used to identify the structure of HTML.