1. What are the main web browsers in use and what engines do they use

1.One of the most popular web browsers is Google Chrome which uses Blink as an engine. It is also worth mentioning Safari from Apple which uses WebKit as an engine, and also microsoft edge that uses Blink.

2. What is responsive web design

2.Responsive web design is an approach to web design aimed at creating websites that provide an optimal viewing and interaction experience across a wide range of devices and screen sizes.

3. What are the 3 main technologies that a website uses

3.HTML, CSS AND JAVASCRIPT.

4. Name at least one more technology/code that the web browser engine can use besides the main 3

4.WebAssembly (Wasm).

5. What is the diffrence between XHTML and HTML5

5.In short words, XHTML is basically stricter and less used than HTML5. In a way it can be stated that HTML 5 is more "forgiving".

6. Create a basic HTML project that consits of index.html and style.css

6.

<!DOCTYPE html>

<html>

<head>

<title>Hi Class</title>

<style>

h1 {

color: blue;

}

p {

font-style: italic;

}

</style>

</head>

<body>

<h1>Hi Class</h1>

<p>This is an example of a simple HTML project.</p>

</body>

</html>

7. Explain the role of index.html and style.css file in a website project

7.The index.html file defines the structure and content of the webpage, while the style.css file controls its visual presentation and layout.

8. Why is index.html called index and not any other name? Is the index name special?

8."Index.html" is a commonly used name for the main HTML file of a website. Technically it is not special it can be named any other way.

9. Write a basic page structure code into the HTML file

9.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Hii Class</title>

</head>

<body>

<h1>Welcome to the Website</h1>

<p>This is a simple example of a webpage.</p>

</body>

</html>

10. Explain what is the document type declaration tag and why we need to use it

10.The document type declaration ex. (<!DOCTYPE html>) specifies the version of HTML used in the document. It ensures that browsers render the document correctly by triggering standards mode. It's crucial for consistency and compatibility across different browsers.

11. What is the document root tag?

11.The document root tag in HTML is <html>. The <html> tag is the root element of an HTML document. It contains all other HTML elements and serves as the parent container for the entire document's content.

12. What is the purpose of the head and body tags

12.The <head> tag contains metadata and resources for the webpage, such as title, stylesheets, scripts, and meta tags. The <body> tag contains the visible content of the webpage, including other elements.

13. Explain and show the role of the title tag

13.The <title> tag specifies the title of the HTML document, which appears in the browser's title bar or tab. Ex:

<!DOCTYPE html>

<html>

<head>

<title>website</title>

</head>

<body>

<! content >

</body>

</html>

14. What is the meta favicon tag and do we need to use it?

14.The <link> tag with the rel="icon" attribute is used to specify the favicon (short for "favorite icon") for a webpage. The favicon is the small icon displayed in the browser tab or next to the URL in the address bar. While it's not strictly necessary to include a favicon, it can enhance the user experience and branding of a website.

15. What is the meta UTF-8 tag for?

15.The <meta charset="UTF-8"> tag is used to specify the character encoding of the HTML document.

16. Show how to validate a HTML using W3C validator

16.The first step is to go to the W3C Markup Validation Service website, and enter the url on the validate by url tab, ot it can also be validated by entering the file, it will analyze the html code and give feedback for any error that are present.

17. What is the diffrence between root of the server and root of the html document?

17.The root of the server refers to the highest-level directory on the server's filesystem, but, the root of the HTML document refers to the html tag.

18. What is the diffrence between the following document paths:

style.css

./style.css

../style.css

/style.css

18.

style.css refers to a file named "style.css" located in the current directory.

./style.css refers to a path that also points to a file named "style.css" in the current directory.

../style.css this path refers to a file named "style.css" located in the parent directory of the current directory.

/style.css path is an absolute path, where the leading "/" refers to the root directory of the server's filesystem.

19. Study the following examples of basic HTML file, explain which examples are correct and which are

have errors and why.

Example 1:

<head>

<title>Hello World</title>

</head>

<h1>Hello World</h1>

Example 2:

<head>

<title>Hello World</title>

</head>

<h1>Hello World</h1>

<body>

<p>This is a paragraph</p>

</body>

Example 3:

<!DOCTYPE html>

<head>

<title>Hello World</title>

<body>

<h1>Hello World</h1>

</body>

1 of 3

Example 4:

<head>

<title>Hello World</title>

</head>

<body>

<h1>Hello World</h1>

</body>

Example 5:

<!DOCTYPE html>

<head>

<title>Hello World</title>

</head>

<body>

<h1>Hello World</h1>

</body>

Example 6:

<!DOCTYPE html>

<html>

<head>

<title>Hello World</title>

</head>

<body>

<h1>Hello World</h1>

</body>

</html>

Example 7:

<!DOCTYPE html>

<title>Hello World</title>

<body>

<h1>Hello World</h1>

</body>

20. What is wrong with the following code:

<!DOCTYPE html>

<html lang=â€œen">

<head>

<meta charset=â€œUTF-8â€™>

<title>My Website</title>

<link rel="stylesheet" href=â€œ./style.css">

<body>

</head>

<h1>Welcome to My Website<h1>

</body>