Day-1

Assignment

1. **write the difference between inline, internal and external js.**
2. **Inline JS:** Inline JS will directly written within the HTML elements, by using handlers like onclick, onmouseover etc..

**-**it is used for very small, specific scripts that are directly tied to the behavior of a single HTML element.

**Internal JS:** it can be written Within <script> tags directly inside the HTML file, usually in the <head> or <body> section.

**External JS:** it can be written in a separate .js file, linked to the HTML document using the src attribute of a <script> tag.

1. **explain the use of doc.write, console.log.**
2. document.write and console.log both are JavaScript methods used for autputting information.

**Document.write:** Used to write content directly into the HTML document stream.

**Console.log:** Primarily used for debugging and inspecting the state of a program during development. It outputs messages to the browser's developer console.

1. **write the difference between synchronous and single thread.**
2. **Single threaded:** Refers to the number of executions paths a program can have at a given time. A single-threaded program has only one thread of execution, meaning it can only perform one operation at a time.

**Synchronous:** Describes how tasks are ordered and executed within a thread. In synchronous execution, tasks are performed sequentially, one after another.

1. **write the differences between js, java, and python.**
2. **JavaScript:** it is used for front-end web development, creating interactive and dynamic user interfaces in web browsers. With Node.js, it can also be used for back-end development. JavaScript is an interpreted language, where the code will be excuted line by line.

**Java:** it is a general-purpose language widely used for enterprise-level applications, Android mobile app development, large-scale systems, and embedded systems. It is a compiled language. Java code is compiled into bytecode, which is then executed.

**Python:** it is a versatile, general-purpose language popular in data science, machine learning, artificial intelligence, web development (back-end), automation, and scripting. It also an interpreted language.

1. **write the differences between inner html and inner text.**
2. The innerHTML and innerText properties in JavaScript are used to access and modify the content of HTML elements.

**innerHTML:** it sets the entire HTML content within an element, including all HTML tags, attributes, and text. It parses the provided string as HTML, rendering any tags and applying their associated styles.

**innerText:** it sets only the visible, rendered text content of an element, ignoring all HTML tags and formatting. It does not parse HTML tags; it treats them as plain text if set, but when getting, it extracts only the visible text.