Single-Threaded Programming Languages

Benefits and Use Cases:

Single-threaded programming languages are often straightforward and easy to work with. They are well-suited for tasks that do not require parallelism or when the tasks can be efficiently handled sequentially. These languages are particularly useful for simple scripts, web development, and applications where performance gains from parallelism are not critical.

Example: JavaScript

JavaScript is a popular single-threaded programming language commonly used for web development. In web browsers, JavaScript runs in the main thread and handles tasks like user interactions, DOM manipulation, and HTTP requests. While it is single-threaded, JavaScript leverages non-blocking I/O and asynchronous programming to handle tasks efficiently, enabling responsive and interactive web applications.