**Why Singleton for Logger**:

* **Consistency**: Ensures that all parts of the application use the same logging mechanism.
* **Resource Management**: Controls access to resources such as file handles, avoiding issues like file corruption or access conflicts.
* **Global Access**: Provides a single point of control and configuration for logging, making it easier to manage and maintain.

**Singleton Implementation**:

* **Private static variable (loggerInstance)**: This variable holds the single instance of the Logger class.
* **Private constructor**: Prevents the instantiation of the Logger class from outside.
* **Public static method (getInstance)**: Provides the global point of access to the singleton instance. It uses lazy initialization and ensures thread safety with double-checked locking.