**Problem Statement:**

1. Use **macros** to control logging behavior (e.g., enabling or disabling debug information).
2. Log different types of messages like **errors, warnings, and debug information** based on compile-time configurations.
3. Allow switching between different logging levels without modifying the code but by simply changing the preprocessor directives.

**Learnings from the Problem Statement:**

1. **Preprocessor Directives for Code Control**:
   * The preprocessor allows for conditional inclusion or exclusion of code blocks at **compile-time**. By using **#ifdef**, **#ifndef**, and **#endif**, you can tailor the compiled binary for different use cases without changing the source code itself.
2. **Macroscopic View of #define Macros**:
   * **#define** is used to create macros that control the behavior of the program. This can be used to define constants, enable or disable features, or simplify repetitive tasks.

