

“Guidelines for C Programming”

- **Consistent Formatting:**

Maintain consistent indentation, spacing, and naming conventions throughout the code base.

- **Meaningful Names:**

Use descriptive names for variables, functions, and other identifiers to enhance code clarity and understanding.

- **Commenting Document:**

Code logic, algorithmic decisions, and any non-trivial sections with clear and concise comments.

- **Modularization:**

Divide code into smaller, cohesive modules or functions, each responsible for a specific task or functionality.

- **Error Handling:**

Implement robust error-checking and handling mechanisms to ensure proper program behavior in unexpected situations.

- **Optimization:**

Prioritize clear and readable code over premature optimization, optimizing performance only when necessary and backed by profiling data.

- **Function Documentation Template:**

Use the following template to document functions in your C code:

```
/*-----  
NAME:          BlinkLed (int wait)  
DESCRIPTION:    Blinked the Led at GPIO25  
  
INPUTS:        int wait, Led on-off delay in ms  
OUTPUTS:       void  
  
PROCESS:       turn on an LED for wait ms and turn it off for wait ms  
AUTHOR:        Aamir Farooqui.  
DATE:          5/10/2024  
MODIFIED BY:  
COMMENTS:  
VERSION:       V1.0  
  
-----*/
```

Adhering to these guidelines promotes code quality, readability, and maintainability, ultimately contributing to the success of C programming projects.