C Coding Standards

Naming Conventions

- Variables
 - Use only lower case
 - Use underscores to separate words in a name: first name
 - Need to be descriptive: array_length
 - Commonly used variables like *i*, *j*, and *k* for loop control and array indexing are acceptable.
 - o Arrays should indicate that it is multiple items: customers
- Definitions
 - o All #define statements must be in UPPER CASE: #define ARRAY_SIZE (10)
 - o Except for using upper case follow variable naming conventions.
 - o Always use parentheses around numeric values in #define statements.
 - o Never use hard coded numbers except in #define statements.
- Functions
 - Need to be descriptive: get_customer_account
 - Using a verb and an object often adds clarity: create_report

Comments

- Need to describe purpose: // search array for a customer number
- Do not just describe how the code works: a = b + c; // add b and c and put in a
- Many programmers now prefer using // for single line comments.
- /* */ syntax is still used but should be formatted to show clearly the range of comment text.
- Inside functions describe the purpose of each significant section of code.
 - o Loops should have a comment describing the loop's purpose (unless obvious).
 - Complex expressions should be documented.
- Functions must have a block of comments right above the function describing:
 - o Purpose
 - Input parameter(s)
 - o Output