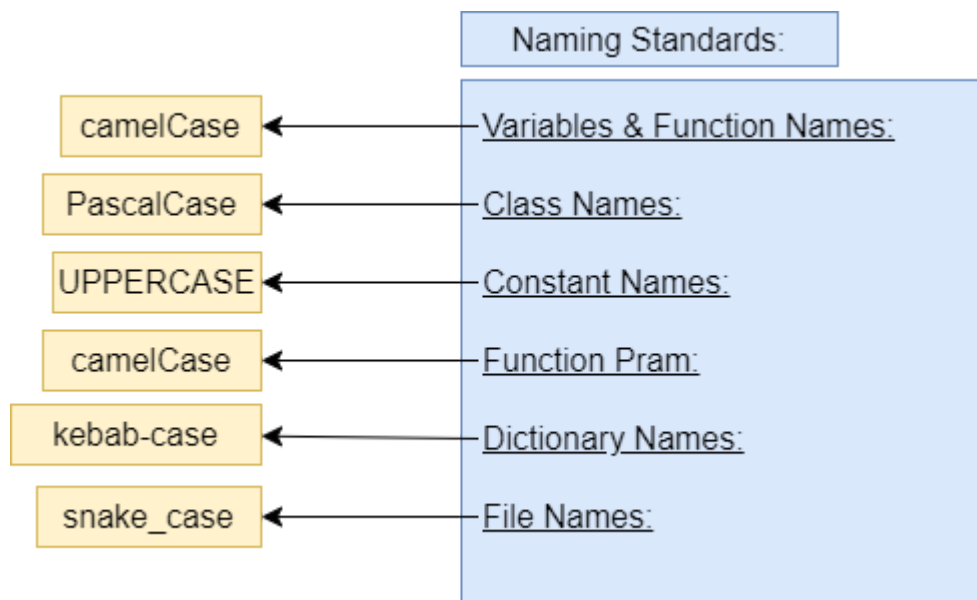


Coding Standards Diagram

- File informational headers
 - A file informational header will be placed at the beginning of each source file.
 - Format
 - File name
 - Brief description of the purpose of the file
 - Programmers who collaborated on it
 - Revision history notes
- Naming conventions
 - Variable and function names have to be meaningful so that anyone can understand the reason of using it
 - Variables should be named using camel case lettering starting with small letters (e.g localVar)
 - Constants should use capital letters only (e.g CONSTANTVAR)
 - Avoid the use of digits in variable names
 - Names of functions and function parameters should be written in camel case lettering starting with small letters
 - Name of a function must clearly and briefly describe the reason of using the function
 - File names should be in snake case



- Indentation
 - Use tab indentation
 - Each nested block should be properly indented and spaced

- All braces should start from a new line and the code following the end of braces should also start from a new line
- **Header files**
 - Each module has it's own corresponding header file that describes its interface. (i.e no mixing of interfaces into one header file)
 - Header files will not contain any code, just declarations
 - Header files will not be used to initialise data
- **Subroutine headers**
 - Each subroutine in the file should have a header before the beginning of its declaration
 - Format
 - Name
 - Brief description of its purpose
 - Subroutines called in support of this one
 - Return (if applicable)
 - Programmers
 - Date
- **Comments**
 - All comments should comply to Doxygen commenting syntax
 - Comments should be presented in paragraph form prior to a block of code
 - Indent block comments on the same level as the block being described
 - Although block comments will be the primary form of commenting, use inline comments where appropriate
 - An inline comment shall accompany each definition of a variable
- **Git standards**
 - No pushing directly to the master branch
 - Everyone branches off of the master branch then code will be merged into the master branch at a later stage
 - Use clear and concise commit messages

