

# CODING STANDARD



- The following documentation and comment styles are to be used for the code submitted.
- Replace all the **<Description>** tags from the comments below to add appropriate content for your application.

## 1. FILE LEVEL COMMENTS

The code file should start with File Level comments in the format as follows:

**Author Name :** <Name of the person who wrote the code>

**Domain:** <Domain of your task>

**Sub-Domain:** <Sub-domain of your task (Only for task 1 & 2)>

**Functions:** <Comma separated list of Functions defined in this file>

**Global Variables:** <List of global variables defined in this file, none if no global variables>

## 2. FUNCTION LEVEL COMMENTS

Each function should have the following comment section before it:

**Function Name:** <Function Name>

**Input:** < Inputs (or Parameters) list with description if any>

**Output:** < Return value with description if any>

**Logic:** <Description of the function performed and the logic used in the function>

**Example Call:** <Example of how to call this function>

### 3. VARIABLE COMMENTS

In general the variable/function names should be descriptive enough to give a good idea of what the variable is used for., For example, variable names like `black_line_threshold_value`, `left_motor_turn_right` are preferable and makes your code readable. Variable names like `'a'`, `'b'` and `'temp'` are not acceptable variable names. In some cases, variable names might require some description for which the following format can be used:

**Variable Name:** Description of the variable and the range of expected values of the variable.

### 4. IMPLEMENTATION COMMENTS

In your implementation/actual code, you should have comments in tricky, non-obvious, interesting, or important parts of the code.

“Any fool can write code that a computer can understand. Good programmers write code that humans can understand.” - **Martin Fowler**

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“Programs must be written for people to read, and only incidentally for machines to execute.” - **Hal Abelson & Gerald Jay Sussman**

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“Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live.” - **Rick Osborne**