PROGRAMMING STANDARDS

CMPS 3500

Coding Style Guidelines

Coding Style Guidelines – CMPS 3500

If you are a student of CMPS 3500 you should follow the following coding style conventions and guidelines since your code will get evaluated using this criteria.

- Put your name on your code
- Class member variables use Snake Case Notation
- Methods and/or Functions Use Camel-Hump Notation
- Column Width
- Commenting Guidelines

Naming your file

 Put your name at the top of every source code file, include the assignment name, last update date, and file name.

Sample header in a C++ code.

Variables Use Snake Case Notation

- Variables should begin with a lowercase letter. Even better if lower case variables are used exclusively. Variables with multiple word components should be connected with underscore character.
- Samples:
 - a, i, j
 - one, result, var23
 - m_verbose, initial_temperature, best_so_far

Methods and/or Functions Use Camel-Hump Notation

- Camel-hump notation uses a capital letter for each word component in the class name except for the first letter. By always beginning with a small letter, class functions are easily distinguishable from class names, which also use camelhump notation.
- Samples:
 - getFirstElement()
 - addIvPFunction()
 - solveIPP()

Column Width

A column of code should be no greater than 80-85 characters wide. Limiting the column width is motivated by wanting to see more than one column on the screen and avoiding wrap-around in a text editor.

```
DATE: 02/03/2021 */
#include <iostream>
#include <stdlib.h>
#include <string.h>
#include <time.h>
using std::cout;
using std::endl;
std::string GetTimeString();
int main(void)
  cout << GetTimeString() << endl;</pre>
  return 0;
std::string GetTimeString()
  time t caltime;
                     // variable to hold calendar time
  time(&caltime);
                    // Assign time to caltime using std. lib. "time" function.
```

Commenting Guidelines

- Commenting code is subjective <u>but doing it in some way is</u> <u>almost universally accepted as a good practice</u>. Each programming language has a different way of commenting in the source code.
- The basics tenets of commenting your code are simple:
 - Make them brief
 - Keep them relevant
 - Use them liberally, but not to excess