COP2334 Programming Style Guide

NOTE: An example of each style point is show below.

1. Header comments for all programs.
2. Function prototype used.
3. Function prototype commented including explanation of return value and parameters
4. Variable and Constant names should be descriptive creating self documenting code.
5. Constant comments explaining what the constant represents.
6. Variable comments as needed to assist in understanding variable role.
7. Comments explaining looping and if constructs or any algorithms used.
8. See text for addition examples of appropriate comments.
9. Proper indentation

```
**********************************************************************
// File Name: something.cpp (Your system may require some suffix other than cpp.)
// Author: Your Name Goes Here.
// Email Address: you@students.uwf.edu
// Assignment Number: 2
// Description: Program to determine if.
// Last Changed: September 23, 2015

#include <iostream>
using namespace std;

const double RATE = 150.00; // Dollars per quarter hour.

double fee(int hours_worked, int minutes_worked);
/* Returns the charges for hours_worked hours and minutes_worked minutes of legal services.
   Parameters:
   _hours_worked - number of hours worked
   _minutes - number of minutes worked.
*/

int main ( ) {
    int hours, minutes;
    double bill;  // Total cost of service
```

```
    cout << "Welcome to the offices of\n"
         << "Dewey, Cheatham, and Howe.\n"
         << "The law office with a heart.\n"
         << "Enter the hours and minutes"
         << " of your consultation:\n";
    cin >> hours >> minutes;

    bill = fee(hours, minutes);

    cout.setf(ios::fixed);
    cout.setf(ios::showpoint);
    cout.precision(2);
    cout << "For " << hours << " hours and " << minutes
         << " minutes, your bill is $" << bill << endl;

    return 0;
}

double fee (int hours_worked, int minutes_worked) {
    int quarter_hours;

    // Calculates number of minutes work by converting hours worked to minutes and adding minutes worked.
    minutes_worked = hours_worked * 60 + minutes_worked;
    quarter_hours = minutes_worked / 15;
    return (quarter_hours * RATE);
}
```