CS1428 Lab 9

# Name: Section:

1. (10 pts) State whether the following is a function header, or a function call:
2. calculateArea();
3. void displayArea();
4. (20 pts) What will be displayed by the following program after the user enters 5?

#include <iostream>

using namespace std;

void firstFunction()

{

cout << “Within the first function\n”;

}

void secondFunction()

{

cout << “Within the second function\n”;

}

int main()

{

int input;

cout << “Enter a number: ”;

cin >> input;

if(input < 5)

{

firstFunction();

secondFunction();

}

else

{

secondFunction();

firstFunction();

}

return 0;

}

1. (35 pts) Complete the program **lab9\_01.cpp**. This program determines whether a student qualifies for a scholarship. To qualify, the student must have completed at least 30 hours of course work at Texas State with at least a 3.5 grade point average.

Your program should have **just** two (2) functions:

* qualified()
* notQualified()

The function qualified should notify the user that the student qualifies for the scholarship. The function notQualified should notify the user that the student does not qualify for the scholarship.

Your program should prompt the user to enter his/her GPA and the number of course work hours completed. Do not accept negative values. Use **input validation** for GPA and hours. If the entered GPA and course work hours completed meet the above criteria, call the qualified function; otherwise, call the notQualified function.

4. (35 pts) Complete the **lab9\_02.cpp** program. ***Note:*** Do not alter the existing code in any way. You should only provide new code where instructed.

Submit **lab9\_01.cpp** and **lab9\_02.cpp** to homework upload and attach their print outs to this worksheet.