**Answer Sheet for Laboratory Assignment #3**

**(100 points)**

**Submit this file to your lab instructor at the end of the lab for grading.**

**Also turn in ALL code via Blackboard (Lab 3).**

**Step 2:**

* First compile and execute the program prog1.cc.
* (30 pts) The program and the output are almost unreadable because of the bad formatting. Reformat the program and the output to make them clear and readable. Please look at the [**Coding** HYPERLINK "https://github.com/nasseef/cs2400/blob/master/docs/coding-style.md"  **HYPERLINK "https://github.com/nasseef/cs2400/blob/master/docs/coding-style.md"Style Guide**](https://github.com/nasseef/cs2400/blob/master/docs/coding-style.md) on the class's website. Also, your program must have introductory comments (header block with your name, lab # etc.) at the top.

**Step 3:**

1. (5 pts.) The prog2.cc has a compilation error(s). What line(s) of the file does the compilation error(s) occur at?

12.

2. (5 pts.) What does the error message(s) say?

"endl was not declared in this scope; did you mean 'std::cout'?"

3. (5 pts.) Explain how you fixed the error(s).

Added "using namespace std;"

4. (5 pts.) The prog3.cc has compilation errors. What lines of the file does the compilation error occur at?

17 and 19.

5. (5 pts.) What does the error messages say?

"Num2 was not declared in this scope; did you mean 'num2'?"

6. (5 pts.) Explain how you fixed the errors.

Changed Num2 to correct variable name "num2", removed uneccessary second cout statement and merged it with the first.

**Step 4:**

7. (5 pts.) What is the output from running the ./a.out or ./a.exe from prog4.cc with the given data?

It outputs the entered number multiplied by 2.

8. (5 pts.) Write down the output from prog4.out

2

2 times 2 = 4

4

4 times 2 = 8

6

6 times 2 = 12

8

8 times 2 = 16

10

10 times 2 = 20

**Step 5**: Download prog5.cc from the course account. Compile and execute and answer the following questions.

* (5 pts.) What is the output of this program?

20 degrees Celsius in Fahrenheit is 52

56 degrees Fahrenheit in Celsius is 0

* (10 pts.) Do the calculation **manually** and compare with the output from the program. Explain what is happening.

The program is using the wrong order of operations. It output 20c=52f, and 56f=0c.

* (5 pts.) Correct the code as the programmer intended.
* (5 pts.) Include the necessary statements to format the output to **one decimal** place.
* (5 pts) Include the header documentation (your name, lab#, introduction to the program etc.).

**BE SURE TO SUBMIT ALL THE PROGRAMS YOU MODIFIED ON BLACKBOARD UNDER Lab3.**