Miami University
College of Engineering and Computing
Department of Computer Science and Software Engineering

CSE-278 Systems I Fall 2018

Lab 03

In this lab, we are going to practice more NetBeans to get a program in C++ build and running, together with command line Linux. We also create a mini web-page. In addition, we include some simple programming problems in C++ which emphasize input output.
You will find the source and data files in

`/home/cse-278/WK03`

This time it has the files

```
lb03.pdf
exercise3.cpp
erroneous.cpp
filer.cpp
ex-lab03.docx
```

The first one is the **.pdf* file that you are reading.

Work through the worksheet `ex-lab03.docx`, and submit it to grading by the due date. Then work on the supplementary problems.

This supplementary exercises are about simple progamming in C++, including basic I/O, control structures (if-else, do, etc.) and logical operators. Please feel to write these programs in any way you like it. If you use an IDE, make sure you can compile and run by command line as well.

Bear in mind these are not graded, but you should work on them. Create a directory for each week and put your work in there. It will be invaluable to review for the midterms!.

1. Correct the the program `erroneous.cpp` . What is the program supposed to do?
   – Provide the adequate arguments to g++, so that it creates the appropriate file. You should not obtain any error messages.
   – Once you get it compiling, rename it `correct.cpp` and in the same file write a simple `main()`, that makes it executable.

2. Write a C++ program that reads a pair of integers x, y and outputs whether they lie:
   (a) on the origin,
   (b) on one of the Cartesian axis
   (c) on one of the four quadrants.
   In the latter case, you must specify the quadrants, I, II etc. Use the extraction operator `>>` to read the integers.

3. The file `filer.cpp` contains code to read and display all the numbers (integers) of a file. After adding and modifying it with proper statements (where it is commented TODO), use it to count the number of integers in any file with integers that you may create.