C++ Programming – ENG TECH 1CP3
File I/O

Lab L7

For each of the following problems, be sure to output the results to the console.

1. Create a program that reads the values from a file containing carbon monoxide detector readings in ppm, counts the number of values, and stores the toxic level values in a file. The values are listed below, but the program should be able to process a file that contains any number of values. Do not store the values in an array. Instead, read a value, store it in a variable, process it, then read the next value, storing it in the same variable. Loop through the file in this manner. Carbon monoxide that is higher than 35ppm is considered to be toxic by the OHSA. Output all toxic values to a file called **toxicCO.txt**. Output to the console, the total number of readings and the total number of toxic readings.

```
42
 7
35
13
20
36
34
25
20
 6
26
45
26
18
46
17
26
39
32
48
18
43
34
 3
33
10
26
```

14
3
20
14
15
45
5
25
7
46
4
14
45
9
7
50
18
48
3
35
28
29
6

2. Create a program that prompts the user for the licence plate number of a car. Do not include the space character. If the user types the value 0, the program should output the number of plates entered during that session and exit. Otherwise, the user should be prompted for another license plate number. Append the license plate value to a text file called **plates.txt**. Re-run the program to ensure the plate values are appended to the file.

Create a Word .doc file that contains the source code and a screen captures of the console window as the program is running, for all C++ programs. Save this file as YourName_Lab_07.doc and upload and submit to the appropriate AVENUE lab assignment drop-box.