**Name:**

**Advanced Programming in C++**

**Working with Files**

**Lab Exercise 3/22/2023**

In this exercise you will write programs to help you learn about working with files. Remember that when you work with files you need to perform three basic operations:

1. Open the file for read or write
2. Read from the file or Write to the file
3. Close the file

Closing the file is particularly important when you are writing to a file. If you do not close the file, all of your write operations will be lost.

1. Write a program that prints your source code.
2. Write a program that asks the user for the name of a file and a string to search for. The program will search the file for all occurrences of the specified string and display all lines that contain that string. After all occurrences of the string have been located, the program should report the number of times the string appeared in the file.
3. Write a program that reads in a file and writes it back in pig Latin. Last year you wrote a pig Latin word converter.

**When you have completed these programs, you are to submit your documented source code as well as a sample of the output for each program.**