**Programming Assignment 2: Threads – Report**

**Part 1:**

Compiled with gcc part1.c -o part1 -lpthread

A text file with two lines is passed in as a command line parameter when the program part1.c is executed. The program reads in each string in each line as s1 and s2 respectively. The amount that substring s2 occurs in s1 is counted using a multithreaded program. The number of substrings in s1, the elapsed time it takes to count all substrings within s1 in milliseconds, and the number of threads being used is taken into consideration and measured. To implement multithreading, the POSIX thread (pthread) library is used, since it is already included in the VM being utilized without needing to install additional libraries.