CPSC 410

Project 3

Motivation: Topics covered by this project;
- Mutexes, Threads
- Chapter 5 in Stallings

Overview

std::cout is not threadsafe, if you try to send output to it from many different threads the output can get garbled. Especially if you do something like this;

<mark>std::cout<<data1<<data2<<data3<<data4<<std::endl;</mark>

Your task, gentle reader, is to remedy this situation and produce a tool that will ease the considerable burden of developing and debugging your upcoming project 4.

What I've given you:

tester.h
print_ts.h

I will use my own main.cpp that calls functions in tester.cpp and/or print_ts.cpp

Requirements:

Please provide me with the following 2 files (**please note the case**)
tester.cpp
print_ts.cpp

And an answer to the questions below in the file answers.txt
<mark>1. How do you determine the number of threads you should launch to realistically test your application?</mark>
<mark>2. If you are launching several threads, under what circumstances would these threads not run in parallel on a modern processor?</mark>

Sample usage

std::string s1="some";
std::string s2="data";
PRINT2(s1,s2);

Teams

<mark>Individual effort. No teams for this project please.</mark>

Grading