# Thread Activity

Activity 1: [10 points]

* Write a program thread1.c that uses 5 threads. Initialize a shared variable with a value of 100.
* Each thread must add its Thread ID (tid) (note: the tid is an integer from 1-n passed to the create thread) to the shared variable.
* Once a thread has done the addition, print the ID of the thread. [Note: thread does the printing]
* Output the value of the shared variable once all threads have finished adding to it. [Note: main code does the printing]
* Provide a text file (along with your ZIP file)  with your comments on the results of activity 1 - describe (or show) what was printed and make any comments relevant to your learnings on processes and multi-threading.  [Note: for activity 1 you may want to run the program multiple times to check for more observations]

Activity 2 [10 points]

* Repeat the program but make a modification - and call it thread2.c.
* Add Mutex to provide control on modifying the variable.  It is important to make use of mutexes so that only one thread is incrementing the shared variable at a time.
* Add comments to your text file and provide results and observations for activity 2.

Make sure to provide zip files with source code, Makefile and text files.