pthread_join

Two threads running.

Mutex is used for resource locking.

The thread going to call a method named sectionWise_gradeAvg . Inside this method before reading out a file. We acquire a lock on the file and then start reading file line by line. Once a line is loaded into a buffer successfully then we are going to split the line on the basis of comma as a delimeter.

A passed parameter to the thread function is used to match against the section of the student and then each assignment grades are added into a variable called ass1_grad_sum. We are going to track the count of students in a particular section by using a variable count. Lastly, the count is used to get the average grade for each of the assignments.

We are using platform independent threads "pthreads" and while instantiating these pthreads they are connected to the thread function and an object structure(pass_info) is passed containing the section information of the student.

So the two threads which are going to get triggered on join, going to get two different sections A and B both at the same instant in order to process simultaneously.