

# CSC3150 Assignment2

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## 1 What I Learnt From the task

### 1.1 -lpthread

Q: Why gcc does not link to the pthread by "`#include<pthread.h>`", while we must use "`-lpthread`" to compile the program

A:

Having `#include <pthread.h>` in your code doesn't link in the library; it only includes the header for compilation. That allows the compiler to see the various structures, function declarations, etc. included. Having `-lpthread` actually causes the linking to be done by the linker. So the include tells the compiler what's available, and the `-lpthread` actually allows the program to call the functions within the library at runtime.

### 1.2 pthread\_join

Q: Why do we use `pthread_join` in multiple thread programming

A: