

101 + 032 6811

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## CP 213 Lecture Slides

### Thread - Method

- ↳ thread of execution in a program
- ↳ every thread has a priority
- ↳ threads are executed in priority order
- ↳ the thread is the "line" followed to get from one part of execution to the next

### Concurrency

- ↳ Two threads can run @ the same time

### Multi Thread Programming

- ↳ used to allow GUI to be responsive while running

Thread.start → will call run.

```
private class Packer extends Thread  
...  
public void run() ... }  
...  
start implicitly calls run
```

Start implicitly calls run

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→ Programs so far have been single thread

- ↳ main is a thread

Create a class that extends Thread w/ a void method run()

- ↳ To create the second thread in program create an object of the above class and use Threadclass.start

- ↳ This starts the code in the run() method in a new thread in the main program (@ the same time as first thread)

- ↳ Threadclass.join() → Makes main class wait until the other thread has finished to continue

Adding the word Synchronize ~~enforces~~ enforces 1 thread