

Lab 6

[Start Assignment](#)

- Due May 14 by 11:59pm
- Points 100
- Submitting a text entry box or a file upload
- Available until May 19 at 11:59pm

Please complete Lab 6 by the assigned due date .

Attachments

[Lab06.pdf \(https://extcanvas.ucsd.edu/courses/23830/files/15022977?wrap=1\)](https://extcanvas.ucsd.edu/courses/23830/files/15022977?wrap=1) [↓](https://extcanvas.ucsd.edu/courses/23830/files/15022977/download?download_frd=1)
(https://extcanvas.ucsd.edu/courses/23830/files/15022977/download?download_frd=1)

Notes:

On MacOS you may run into issues with threading that throw errors like this:

```
Traceback (most recent call last):
  File "<string>", line 1, in <module>
  File "/Library/Frameworks/Python.framework/Versions/3.8/lib/python3.8/multiprocessing/spawn.py", line 11
  6, in spawn_main
    exitcode = _main(fd, parent_sentinel)
    ...
```

In this case, you may need to explicitly set the multiprocessing unit to use "fork" instead of "spawn" in the first line of the "__main__" block:

```
multiprocessing.set_start_method("fork")
```

Make sure you use "except Empty:" as the exception handler in teller_job

teller_line.get() requires "timeout=" to assign value to correct parameter.

Please DO NOT forget to use bankprint() in the thread methods. Otherwise the output will be all over the place.

Rubric - Lab 6		
Criteria	Ratings	Pts
Part I: Teller class		5 pts
Part I: Customer class		5 pts
Part I: bankprint()		5 pts
Part I: Main block		10 pts
Part II: Customer object creation		5 pts
Part II: wait_outside_bank()		5 pts
Part II: wait_outside_bank(): Proper use of bankprint()		5 pts
Part II: wait_outside_bank(): Acquire semaphore		5 pts
Part II: wait_outside_bank(): Put customer into teller_line		5 pts
Part II: Thread spawning		10 pts
Part III: teller_job()		5 pts
Part III: teller_job(): Proper use of bankprint()		5 pts
Part III: teller_job(): Get customer from teller line		5 pts
Part III: teller_job(): Release semaphore		5 pts
Part III: Teller object creation		10 pts
Part III: teller_job thread spawning		10 pts
		Total Points: 100