

## Experiment\_8\_Deadlock

### 1. Deadlock.py

```
from threading import Thread, Lock

class Counter(object):
    def __init__(self):
        self.value = 0
    #         self.lock = Lock()
    def increment(self):
    #         with self.lock:
    #             self.value += 1
        self.value += 1

c = Counter()


def go():
    for i in range(10000):
        c.increment()

t1 = Thread(target=go)
t1.start()
t2 = Thread(target=go)
t2.start()

t1.join()
t2.join()
print(c.value)
```

Note :- \*\* Uncomment the line to protect from deadlock \*\*

### Output



```
pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~/Desktop/DC/Experiment_8_Deadlock $ python3 deadlock.py
17498
pi@raspberrypi:~/Desktop/DC/Experiment_8_Deadlock $
```

Counter Didn't Run for 20000 - 17498 = 2502