```
In [ ]: import threading
        var=0
        def f1():
            global var
            var=var+1
        def f2():
            for v in range(100000000):
                f1()
        def f3():
            global var
            var=0
            threading.Thread(target=f2).start()
            threading.Thread(target=f2).start()
        for v in range(15):
            f3()
            print("var value:{}".format(var))
In [8]: import threading
        var=0
        def f1():
            global var
            var=var+1
        def f2():
            for v in range(10):
                f1()
        def f3():
            global var
            var=0
            threading.Thread(target=f2).start()
            threading.Thread(target=f2).start()
        for v in range(15):
            f3()
            print("var value:{}".format(var))
        var value:31965567
        var value:32155298
        var value:32295815
        var value:32655937
        var value:32742167
        var value:32820396
        var value:845184
        var value:1132522
        var value:896451
        var value:1288518
        var value:1475324
        var value:529683
        var value:784816
        var value:1343201
        var value:1661076
```

```
Lobj=threading.Lock()
In [ ]: # create a resource
        # lock - Thread entered -
                                                Lobj.acquire()
                                                      cs code block
        # unlock
                                                Lobj.release()
        # T1 T2 T3
          1 1 1
                                 Lock
        # ( execution )
             Crititcal section - relase
        t1 t2 t3 .. t20//active state
              [ ]
              [tx]
        c=1
        c=1
        c=0 \rightarrow c=0 -[tx]-
                   [ ]
        c+=1
        c=1 ----- [ ]....[tx1]
        c=1
        c=0 ---->[tx1]
                  _release
        c+=1 ---->[]
        c = 0, 1
```

```
In [13]: import threading
         var=0
         def f1():
             global var
             var=var+1
         def f2(Lobj):
             for v in range(10000):
                 Lobj.acquire() # Lock
                 Lobj.release() # unlock
         def f3():
             global var
             var=0
             Lobj=threading.Lock()
             threading.Thread(target=f2,args=(Lobj,)).start()
             threading.Thread(target=f2,args=(Lobj,)).start()
         for v in range(10):
             f3()
             print("var value:{}".format(var))
```

var value:13902078
var value:265166
var value:291099
var value:173064
var value:414553
var value:532528
var value:615632
var value:597531
var value:109820
var value:380291