



4. wait() | wait(seconds) → Thread can wait until event is set

Pseudo Code:

```
event = threading.Event()
```

```
#consumer thread has to wait until event is set  
event.wait()
```

```
#producer thread can set or clear event  
event.set()  
event.clear()
```

Demo Program-1:

```
1) from threading import *  
2) import time  
3) def producer():  
4)     time.sleep(5)  
5)     print("Producer thread producing items")  
6)     print("Producer thread giving notification by setting event")  
7)     event.set()  
8) def consumer():  
9)     print("Consumer thread is waiting for updation")  
10)    event.wait()  
11)    print("Consumer thread got notification and consuming items")  
12)  
13) event=Event()  
14) t1=Thread(target=producer)  
15) t2=Thread(target=consumer)  
16) t1.start()  
17) t2.start()
```

Output:

```
Consumer thread is waiting for updation  
Producer thread producing items  
Producer thread giving notification by setting event  
Consumer thread got notification and consuming items
```

Demo Program-2:

```
1) from threading import *  
2) import time  
3) def trafficpolice():  
4)     while True:  
5)         time.sleep(10)  
6)         print("Traffic Police Giving GREEN Signal")
```