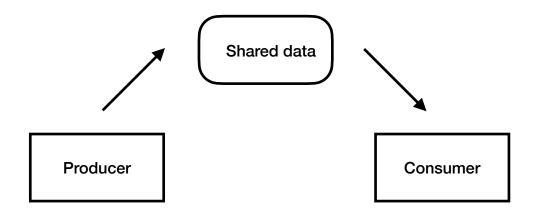
InterProcess Communication

- Two or more processors communicating with each other is said said inter Process Communication but in this we are having threads so this is inter Process thread Communication
- Lets take example



- Producer will produce the data and consumer will consumes the data
- If you want that one by one then we use flag . Suppose if flag = false then it is producers turn after putting the value the flag will be true that means now its consumers turn .
- Consumer will consume that data and make the flag = false
- Shared data have two methods that is put () and get ()
- put() is for producer and get() is for consumer
- They will exchange term by flag value
- Whenever producer is putting the value first it should lock it then put the value and same goes for consumer whenever consumer is consuming the value first it should put a lock and then consumes the value

```
class MyData:
   def __init__(sel
    self.data=0
       self.flagूFalse
       self.lock = Lock()
   def put(self,d):
     while <u>self.flag != False</u>:
pass
       self.flag = True
   def get(self):
       while self.flag != True:
       self.lock.acquire()
       x = self.data
       self.flag = False
def producer(data):
    i = 1
        data.put(i)
def consumer(data):
        x = data.get()
        print('Consumer:',x)
data = MyData()
t1 = Thread(target=lambda;producer(data))
t2 = Thread(target=lambda;consumer(data))
data = MyData()
t1 = Thread(target=lambda;producer(data))
t2 = Thread(target=lambda;consumer(data))
t1.start()
t2.start()
t1.join()
t2.join()
```